



April 01, 2013

Brad Davis  
Zia Engineering & Environmental  
755 S Telshor Blvd Ste F-201  
Las Cruces, NM 88011  
TEL: (575) 993-6824  
FAX (575) 532-1587  
RE: HELSTF Diesel Spill

Order No.: 1303158

Dear Brad Davis:

DHL Analytical, Inc. received 6 sample(s) on 3/19/2013 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of DoD QSM Ver 4.2 and NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. This report shall not be reproduced except in full without the written approval of DHL Analytical, Inc. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in black ink that reads "John DuPont".

John DuPont  
General Manager

This report was performed under the accreditation of the State of Texas & DoD Laboratory  
Certification Number: T104704211-12-9 & DoD ELAP #ADE-1416 v2



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**4**  
**engineering**  
**& environmental**  
consultants, Inc.

755 S. Teller Blvd. Ste. F-201  
 Las Cruces, NM 88011  
 575-532-1526 u  
 575-532-1587 f

CHAIN OF CUSTODY RECORD

#1303153  
 1 OF 1

PROJECT NO.		PROJECT NAME				NO. OF CONTAINERS	ANALYSIS REQUESTED					REMARKS	
		<i>HELSF Diesel Spill</i>					VOC	TOC	DRO	Hex Chrom.	Total Chro.		pH
01	3-18-13	1140	HLSF-0154-DRW-005-0313	WATER		10	✓	✓	✓	✓	✓		<i>NOTE: 24 hr.</i>
02	3-18-13	1335	HLSF-0154-HCF-001-0313	WATER		10	✓	✓	✓	✓	✓		<i>Hold Time</i>
03	3-18-13	1415	HLSF-0154-RB-001-0313	WATER		10	✓	✓	✓	✓	✓		<i>ON Hex chrome.</i>
04	3-18-13	1330	HLSF-0154-FB-001-0313	WATER		3	✓						
05	3-18-13	1515	HLSF-0154-DRW-012-0313	WATER		10	✓	✓	✓	✓	✓		
06	3-18-13	1530	HLSF-0154-TB-0313	WATER		2	✓						
PROJECT INFORMATION		SAMPLES RECEIVED		1. RELINQUISHED BY: (SIGNATURE)		2. RELINQUISHED BY: (SIGNATURE)		3. RECEIVED BY LAB: (SIGNATURE)					
PROJECT MANAGER		TOTAL NO. OF CONTAINERS		(PRINTED NAME)		(PRINTED NAME)		(PRINTED NAME)					
<i>Brad DAVIS</i>		400		<i>George Esquedo</i>		<i>Seely</i>		<i>Seely</i>					
SHIPPING ID NO.		CHAIN OF CUSTODY SEALS		RECEIVED BY: (SIGNATURE)		RECEIVED BY: (SIGNATURE)		RECEIVED BY: (SIGNATURE)					
		GOOD CONDITION/HILLED		(TIME/DATE)		(TIME/DATE)		(TIME/DATE)					
MIA:		FED - X		<i>3/18/13</i>		<i>3/18/13 90%</i>		<i>3/18/13 90%</i>					
		CONFORMED TO RECORD		SPECIAL INSTRUCTIONS / COMMENTS:									

**FedEx** US Airbill  
Express

FedEx  
Tracking  
Number

8754 0074 7395

1 From This portion can be removed for Recipient's records.

Date 8-18-13 FedEx Tracking Number

875400747395

(575) 644-9192

Phone 575 532-1526

RECIPIENT: PEEL HERE

Sender's Name Brad Davis

Company ZIA ENG AND ENV CONSULTANS INC

Address GOVT APT 755 S. Tel-Hor Blvd. Ste F-201

Dept/Floor/Suite/Room

City LAS CRUCES

State NM ZIP 88011

2 Your Internal Billing Reference

3 To

Recipient's Name John Dugout

Phone 512 288-2222

Company DHL ANALYTICAL

Address 2200 Double CREEK Drive

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City Round Rock

State TX ZIP 78664

0435109318

HOLD Weekday  
FedEx location address  
REQUIRED. NOT available for  
 FedEx Next Overnight.

HOLD Saturday  
FedEx location address  
REQUIRED. Available ONLY for  
 FedEx Priority Overnight and  
FedEx 2Day to select locations.

4a Exp

FedEx  
Next b  
shipme  
unless

FedEx  
Secur  
shipme  
unless

4b Exp

FedEx  
Next b  
deliv  
Delive

FedEx  
Secur  
on M

5 Par

FedEx  
Env

6 Sp

SA  
NOT

No  
Package may be left without  
obtaining a signature for delivery.  
You may sign for delivery. Fee applies.

address may sign for delivery. For  
residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?

One box must be checked.

No  Yes  
As per attached  
Shipper's Declaration.  Yes  
Shipper's Declaration  
not required.

Dry Ice  
Dry Ice, 3, UN 1845   
kg

Cargo Aircraft Only

RECEIVED  
8/18/2013  
TxDOT

7 Payment Bill to:

Sender  
Acct. No. in Section  
X. 1 will be used.  Recipient  Third Party  Credit Card  Cash/Check

Enter FedEx Acct. No. or Credit Card No. below.

Obtain recip.  
Acct. No.

Total Packages

Total Weight

Credit Card Auth.

lbs.

\*Our liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details.

605

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STODY SEAL

ATURE

3-18-13

Expedited

**QEC**

Quality Environmental Containers  
800-255-3950 • 304-255-3900

DHL Analytical, Inc.

Sample Receipt Checklist

Client Name Zia Engineering & Environmental

Date Received: 3/19/2013

Work Order Number 1303158

Received by JB

Checklist completed by:

3/19/2013

Date

Reviewed by

3/19/2013

Date

Carrier name FedEx 1day

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	3.0 °C
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input type="checkbox"/>

Adjusted?

Checked by

Any No response must be detailed in the comments section below.

Client contacted \_\_\_\_\_

Date contacted: \_\_\_\_\_

Person contacted \_\_\_\_\_

Contacted by: \_\_\_\_\_

Regarding \_\_\_\_\_

Comments:

Corrective Action

# DHL Analytical, Inc.

## Laboratory Review Checklist: Reportable Data

Project Name: HELSTF Diesel Spill		Date: 4/2/13					
Reviewer Name: Carlos Castro		Laboratory Work Order: 1303158					
Prep Batch Number(s): See Prep Dates Report		Run Batch: See Analytical Dates Report					
# <sup>1</sup>	A <sup>2</sup>	Description	Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>
R1	OI	<b>Chain-of-Custody (C-O-C)</b> 1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt? 2) Were all departures from standard conditions described in an exception report?	X				R1-01
R2	OI	<b>Sample and Quality Control (QC) Identification</b> 1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers? 2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	<b>Test Reports</b> 1) Were all samples prepared and analyzed within holding times? 2) Other than those results < MQL, were all other raw values bracketed by calibration standards? 3) Were calculations checked by a peer or supervisor? 4) Were all analyte identifications checked by a peer or supervisor? 5) Were sample quantitation limits reported for all analytes not detected? 6) Were all results for soil and sediment samples reported on a dry weight basis? 7) Were % moisture (or solids) reported for all soil and sediment samples? 8) If required for the project, TICs reported?	X				
R4	O	<b>Surrogate Recovery Data</b> 1) Were surrogates added prior to extraction? 2) Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	<b>Test Reports/Summary Forms for Blank Samples</b> 1) Were appropriate type(s) of blanks analyzed? 2) Were blanks analyzed at the appropriate frequency? 3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures? 4) Were blank concentrations < MQL?	X				R5-04
R6	OI	<b>Laboratory Control Samples (LCS):</b> 1) Were all COCs included in the LCS? 2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps? 3) Were LCSs analyzed at the required frequency? 4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits? 5) Does the detectability data document the laboratory's capability to detect the COCs at te MDL used to calculate the SQLs? 6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	<b>Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data</b> 1) Were the project/method specified analytes included in the MS and MSD? 2) Were MS/MSD analyzed at the appropriate frequency? 3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits? 4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	<b>Analytical Duplicate Data</b> 1) Were appropriate analytical duplicates analyzed for each matrix? 2) Were analytical duplicates analyzed at the appropriate frequency? 3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	<b>Method Quantitation Limits (MQLs):</b> 1) Are the MQLs for each method analyte included in the laboratory data package? 2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard? 3) Are unadjusted MQLs included in the laboratory data package?	X				
R10	OI	<b>Other Problems/Anomalies</b> 1) Are all known problems/anomalies/special conditions noted in this LRC and ER? 2) Were all necessary corrective actions performed for the reported data? 3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

# DHL Analytical, Inc.

## Laboratory Review Checklist (continued): Supporting Data

Project Name: HELSTF Diesel Spill		Date: 4/2/13				
Reviewer Name: Carlos Castro		Laboratory Work Order: 1303158				
# <sup>1</sup>	A <sup>2</sup>	Description	Yes	No	NA <sup>3</sup>	NR <sup>4</sup>
S1	OI	<b>Initial Calibration (ICAL)</b>				
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X			
		2) Were percent RSDs or correlation coefficient criteria met?	X			
		3) Was the number of standards recommended in the method used for all analytes?	X			
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X			
		5) Are ICAL data available for all instruments used?	X			
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X			
S2	OI	<b>Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB)</b>				
		1) Was the CCV analyzed at the method-required frequency?	X			
		2) Were percent differences for each analyte within the method-required QC limits?	X			
		3) Was the ICAL curve verified for each analyte?	X			
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X			
S3	O	<b>Mass Spectral Tuning</b>				
		1) Was the appropriate compound for the method used for tuning?	X			
		2) Were ion abundance data within the method-required QC limits?	X			
S4	O	<b>Internal Standards (IS)</b>				
		1) Were IS area counts and retention times within the method-required QC limits?		X		S4-01
S5	OI	<b>Raw Data (NELAC section 1 appendix A glossary, and section 5.12)</b>				
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X			
		2) Were data associated with manual integrations flagged on the raw data?	X			
S6	O	<b>Dual Column Confirmation</b>				
		1) Did dual column confirmation results meet the method-required QC?			X	
S7	O	<b>Tentatively Identified Compounds (TICs)</b>				
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X	
S8	I	<b>Interference Check Sample (ICS) Results</b>				
		1) Were percent recoveries within method QC limits?	X			
S9	I	<b>Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions</b>				
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X			
S10	OI	<b>Method Detection Limit (MDL) Studies</b>				
		1) Was a MDL study performed for each reported analyte?	X			
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X			
S11	OI	<b>Proficiency Test Reports</b>				
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X			
S12	OI	<b>Standards Documentation</b>				
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X			
S13	OI	<b>Compound/Analyte Identification Procedures</b>				
		1) Are the procedures for compound/analyte identification documented?	X			
S14	OI	<b>Demonstration of Analyst Competency (DOC)</b>				
		1) Was DOC conducted consistent with NELAC Chapter 5C?	X			
		2) Is documentation of the analyst's competency up-to-date and on file?	X			
S15	OI	<b>Verification/Validation Documentation for Methods (NELAC Chap 5)</b>				
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X			
S16	OI	<b>Laboratory Standard Operating Procedures (SOPs)</b>				
		1) Are laboratory SOPs current and on file for each method performed?	X			

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

# Laboratory Data Package Signature Page

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

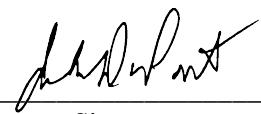
- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

**Release Statement:** I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

John DuPont – General Manager

Scott Schroeder – Technical Director



---

Signature

04/02/13

Date

**CLIENT:** Zia Engineering & Environmental  
**Project:** HELSTF Diesel Spill  
**Lab Order:** 1303158

**CASE NARRATIVE**

This case narrative describes abnormalities and deviations that may affect the results and summarizes all known issues that need to be highlighted for the data user to assess the results. This case narrative and the report contents are compliant with DoD QSM Ver 4.2 and NELAC.

Samples were analyzed using the methods outlined in the following references:

Method SW6020 - Metals Analysis  
Method SW8260C - Volatile Organics  
Method M8015D - DRO Analysis  
Method M4500-H+ B - pH of a Water  
Method M3500-Cr D - Hexavalent Chromium  
Method M5310C - TOC Analysis

**Exception Report R1-01**

The samples were received on and log-in performed on 3/19/13. A total of 6 samples were received and all were analyzed. The samples arrived in good condition and were properly packaged.

**Exception Report R4-02**

For Volatiles analysis performed on 3/22/13 the surrogate recovery for sample HLSF-0154-HCF-001-0313 was slightly above control limits for Dibromofluoromethane. This is flagged accordingly. The remaining surrogates were within control limits. No further corrective actions were taken.

For DRO analysis performed on 3/26/13 and 3/27/13 the surrogate recoveries for samples HLSF-0154-DRW-005-0313 and HLSF-0154-HCF-001-0313 were above control limits for Octacosane. These are flagged accordingly. The remaining surrogate was within control limits. No further corrective actions were taken.

**Exception Report R5-04**

For DRO analysis performed on 3/27/13 DRO was detected above the reporting limit in the system blank (SBLK-130327). The associated sample HLSF-0154-HCF-001-0313 was detected greater than 10 times the amount in the blank. No further corrective actions were taken.

**Exception Report R7-03 & R7-04**

For Volatiles analysis performed on 3/22/13 the matrix spike and matrix spike duplicate recoveries were below control limits for 2-Chloroethylvinylether and Iodomethane. In addition, the matrix spike

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**CLIENT:** Zia Engineering & Environmental  
**Project:** HELSTF Diesel Spill  
**Lab Order:** 1303158

## CASE NARRATIVE

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and matrix spike duplicate had the RPD above control limits for Bromomethane and Iodomethane. These are flagged accordingly in the QC summary report. The reference sample selected for the matrix spike and matrix spike duplicate was not from this work order. The LCS was within control limits for these compounds. No further corrective actions were taken.

### Exception Report S4-01

For Metals analysis samples HLSF-0154-DRW-005-0313, HLSF-0154-HCF-001-0313 and HLSF-0154-RB-001-0313 and all QC samples had responses above QSM control limits but within method 6020A control limits for the internal standard Scandium(1). The associated analyte (Chromium) was below detection limits for the samples and all QC samples were within control limits. No further corrective actions were taken.

A summary of project communication follows:

DHL Analytical received the Project RFQ from the client on 12/29/09. Completed RFQ returned to client via email on 1/07/2010. Purchase Order/Terms and Conditions received and signed and approved by both parties on 01/25/2010.

Brad Davis of Zia requested a bottle kit via email from Jennifer Barker of DHL on 2/25/2013.

DHL Bottle kit #3908 sent on 2/27/2013 via Lonestar Overnight, to arrive by 3/1/2013.

This sample delivery group arrived at DHL Analytical 3/19/13. Sample summary sent via email from Log-in to client on 3/19/13.

All hardcopies for the sample kit request, bill of lading for sample kit sent and login summary are kept in project folder.

**CLIENT:** Zia Engineering & Environmental  
**Project:** HELSTF Diesel Spill  
**Lab Order:** 1303158

**Work Order Sample Summary**

<b>Lab Smp ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Date Collected</b>	<b>Date Recvd</b>
1303158-01	HLSF-0154-DRW-005-0313		03/18/13 11:40 AM	3/19/2013
1303158-02	HLSF-0154-HCF-001-0313		03/18/13 01:35 PM	3/19/2013
1303158-03	HLSF-0154-RB-001-0313		03/18/13 02:15 PM	3/19/2013
1303158-04	HLSF-0154-FB-001-0313		03/18/13 01:30 PM	3/19/2013
1303158-05	HLSF-0154-DRW-012-0313		03/18/13 03:15 PM	3/19/2013
1303158-06	HLSF-0154-TB-0313		03/18/13 03:30 PM	3/19/2013

**Lab Order:** 1303158  
**Client:** Zia Engineering & Environmental  
**Project:** HELSTF Diesel Spill

**PREP DATES REPORT**

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1303158-01A	HLSF-0154-DRW-005-0313	03/18/13 11:40 AM	Aqueous	SW5030C	Purge and Trap Water GC/MS	03/22/13 10:33 AM	56560
1303158-01B	HLSF-0154-DRW-005-0313	03/18/13 11:40 AM	Aqueous	M5310C	TOC prep Aqueous	03/21/13 09:00 AM	56501
1303158-01C	HLSF-0154-DRW-005-0313	03/18/13 11:40 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/27/13 08:58 AM	56631
1303158-01D	HLSF-0154-DRW-005-0313	03/18/13 11:40 AM	Aqueous	SW7196A	Hexachrom Prep Water	03/19/13 10:31 AM	56494
	HLSF-0154-DRW-005-0313	03/18/13 11:40 AM	Aqueous	M4500-H+ B	pH Preparation	03/19/13 09:30 AM	56504
1303158-01E	HLSF-0154-DRW-005-0313	03/18/13 11:40 AM	Aqueous	SW3510C	Aq Prep Sep Funnel: DRO	03/22/13 06:39 AM	56549
1303158-02A	HLSF-0154-HCF-001-0313	03/18/13 01:35 PM	Aqueous	SW5030C	Purge and Trap Water GC/MS	03/22/13 10:33 AM	56560
1303158-02B	HLSF-0154-HCF-001-0313	03/18/13 01:35 PM	Aqueous	M5310C	TOC prep Aqueous	03/21/13 09:00 AM	56501
1303158-02C	HLSF-0154-HCF-001-0313	03/18/13 01:35 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/27/13 08:58 AM	56631
1303158-02D	HLSF-0154-HCF-001-0313	03/18/13 01:35 PM	Aqueous	SW7196A	Hexachrom Prep Water	03/19/13 10:31 AM	56494
	HLSF-0154-HCF-001-0313	03/18/13 01:35 PM	Aqueous	M4500-H+ B	pH Preparation	03/19/13 09:30 AM	56504
1303158-02E	HLSF-0154-HCF-001-0313	03/18/13 01:35 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: DRO	03/22/13 06:39 AM	56549
	HLSF-0154-HCF-001-0313	03/18/13 01:35 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: DRO	03/22/13 06:39 AM	56549
1303158-03A	HLSF-0154-RB-001-0313	03/18/13 02:15 PM	Aqueous	SW5030C	Purge and Trap Water GC/MS	03/22/13 10:33 AM	56560
1303158-03B	HLSF-0154-RB-001-0313	03/18/13 02:15 PM	Aqueous	M5310C	TOC prep Aqueous	03/21/13 09:00 AM	56501
1303158-03C	HLSF-0154-RB-001-0313	03/18/13 02:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/27/13 08:58 AM	56631
1303158-03D	HLSF-0154-RB-001-0313	03/18/13 02:15 PM	Aqueous	SW7196A	Hexachrom Prep Water	03/19/13 10:31 AM	56494
	HLSF-0154-RB-001-0313	03/18/13 02:15 PM	Aqueous	M4500-H+ B	pH Preparation	03/19/13 09:30 AM	56504
1303158-03E	HLSF-0154-RB-001-0313	03/18/13 02:15 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: DRO	03/22/13 06:39 AM	56549
	HLSF-0154-RB-001-0313	03/18/13 02:15 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: DRO	03/22/13 06:39 AM	56549

**Lab Order:** 1303158  
**Client:** Zia Engineering & Environmental  
**Project:** HELSTF Diesel Spill

## PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1303158-04A	HLSF-0154-FB-001-0313	03/18/13 01:30 PM	Field Blank	SW5030C	Purge and Trap Water GC/MS	03/22/13 10:33 AM	56560
1303158-05A	HLSF-0154-DRW-012-0313	03/18/13 03:15 PM	Aqueous	SW5030C	Purge and Trap Water GC/MS	03/22/13 10:33 AM	56560
1303158-05B	HLSF-0154-DRW-012-0313	03/18/13 03:15 PM	Aqueous	M5310C	TOC prep Aqueous	03/21/13 09:00 AM	56501
1303158-05C	HLSF-0154-DRW-012-0313	03/18/13 03:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	03/27/13 08:58 AM	56631
1303158-05D	HLSF-0154-DRW-012-0313	03/18/13 03:15 PM	Aqueous	SW7196A	Hexachrom Prep Water	03/19/13 10:31 AM	56494
	HLSF-0154-DRW-012-0313	03/18/13 03:15 PM	Aqueous	M4500-H+ B	pH Preparation	03/19/13 09:30 AM	56504
1303158-05E	HLSF-0154-DRW-012-0313	03/18/13 03:15 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: DRO	03/22/13 06:39 AM	56549
1303158-06A	HLSF-0154-TB-0313	03/18/13 03:30 PM	Trip Blank	SW5030C	Purge and Trap Water GC/MS	03/22/13 10:33 AM	56560

**Lab Order:** 1303158  
**Client:** Zia Engineering & Environmental  
**Project:** HELSTF Diesel Spill

## ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1303158-01A	HLSF-0154-DRW-005-0313	Aqueous	SW8260C	8260 Water Volatiles by GC/MS	56560	1	03/22/13 06:05 PM	GCMS7_130322A
1303158-01B	HLSF-0154-DRW-005-0313	Aqueous	M5310C	Total Organic Carbon	56501	5	03/21/13 10:42 AM	TOC_130321A
1303158-01C	HLSF-0154-DRW-005-0313	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	56631	1	03/29/13 04:11 PM	ICP-MS3_130329B
1303158-01D	HLSF-0154-DRW-005-0313	Aqueous	M3500-Cr D	Hexavalent Chromium-Water	56494	1	03/19/13 11:36 AM	UV/VIS_2_130319A
	HLSF-0154-DRW-005-0313	Aqueous	M4500-H+ B	pH	56504	1	03/19/13 09:37 AM	TITRATOR_130319A
1303158-01E	HLSF-0154-DRW-005-0313	Aqueous	M8015D	TPH Extractable by GC - Water	56549	1	03/26/13 07:16 PM	GC15_130326A
1303158-02A	HLSF-0154-HCF-001-0313	Aqueous	SW8260C	8260 Water Volatiles by GC/MS	56560	1	03/22/13 06:29 PM	GCMS7_130322A
1303158-02B	HLSF-0154-HCF-001-0313	Aqueous	M5310C	Total Organic Carbon	56501	5	03/21/13 11:00 AM	TOC_130321A
1303158-02C	HLSF-0154-HCF-001-0313	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	56631	1	03/29/13 04:17 PM	ICP-MS3_130329B
1303158-02D	HLSF-0154-HCF-001-0313	Aqueous	M3500-Cr D	Hexavalent Chromium-Water	56494	1	03/19/13 11:38 AM	UV/VIS_2_130319A
	HLSF-0154-HCF-001-0313	Aqueous	M4500-H+ B	pH	56504	1	03/19/13 09:41 AM	TITRATOR_130319A
1303158-02E	HLSF-0154-HCF-001-0313	Aqueous	M8015D	TPH Extractable by GC - Water	56549	10	03/27/13 10:09 AM	GC15_130327A
	HLSF-0154-HCF-001-0313	Aqueous	M8015D	TPH Extractable by GC - Water	56549	1	03/26/13 07:25 PM	GC15_130326A
1303158-03A	HLSF-0154-RB-001-0313	Aqueous	SW8260C	8260 Water Volatiles by GC/MS	56560	1	03/22/13 06:53 PM	GCMS7_130322A
1303158-03B	HLSF-0154-RB-001-0313	Aqueous	M5310C	Total Organic Carbon	56501	1	03/21/13 11:18 AM	TOC_130321A
1303158-03C	HLSF-0154-RB-001-0313	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	56631	1	03/29/13 03:58 PM	ICP-MS3_130329B
1303158-03D	HLSF-0154-RB-001-0313	Aqueous	M3500-Cr D	Hexavalent Chromium-Water	56494	1	03/19/13 11:36 AM	UV/VIS_2_130319A
	HLSF-0154-RB-001-0313	Aqueous	M4500-H+ B	pH	56504	1	03/19/13 09:43 AM	TITRATOR_130319A
1303158-03E	HLSF-0154-RB-001-0313	Aqueous	M8015D	TPH Extractable by GC - Water	56549	1	03/26/13 07:34 PM	GC15_130326A
	HLSF-0154-RB-001-0313	Aqueous	M8015D	TPH Extractable by GC - Water	56549	1	03/27/13 10:00 AM	GC15_130327A

**Lab Order:** 1303158  
**Client:** Zia Engineering & Environmental  
**Project:** HELSTF Diesel Spill

**ANALYTICAL DATES REPORT**

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1303158-04A	HLSF-0154-FB-001-0313	Field Blank	SW8260C	8260 Water Volatiles by GC/MS	56560	1	03/22/13 07:17 PM	GCMS7_130322A
1303158-05A	HLSF-0154-DRW-012-0313	Aqueous	SW8260C	8260 Water Volatiles by GC/MS	56560	1	03/22/13 07:42 PM	GCMS7_130322A
1303158-05B	HLSF-0154-DRW-012-0313	Aqueous	M5310C	Total Organic Carbon	56501	1	03/21/13 11:44 AM	TOC_130321A
1303158-05C	HLSF-0154-DRW-012-0313	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	56631	1	03/29/13 04:23 PM	ICP-MS3_130329B
1303158-05D	HLSF-0154-DRW-012-0313	Aqueous	M3500-Cr D	Hexavalent Chromium-Water	56494	1	03/19/13 11:40 AM	UV/VIS_2_130319A
	HLSF-0154-DRW-012-0313	Aqueous	M4500-H+ B	pH	56504	1	03/19/13 09:46 AM	TITRATOR_130319A
1303158-05E	HLSF-0154-DRW-012-0313	Aqueous	M8015D	TPH Extractable by GC - Water	56549	1	03/26/13 07:43 PM	GC15_130326A
1303158-06A	HLSF-0154-TB-0313	Trip Blank	SW8260C	8260 Water Volatiles by GC/MS	56560	1	03/22/13 08:06 PM	GCMS7_130322A

# DHL Analytical, Inc.

Date: 01-Apr-13

**CLIENT:** Zia Engineering & Environmental  
**Project:** HELSTF Diesel Spill  
**Project No:**  
**Lab Order:** 1303158

**Client Sample ID:** HLSF-0154-DRW-005-0313  
**Lab ID:** 1303158-01  
**Collection Date:** 03/18/13 11:40 AM  
**Matrix:** AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>TPH EXTRACTABLE BY GC - WATER</b>		<b>M8015D</b>					
TPH-DRO C10-C28	1.55	0.0800	0.100		mg/L	1	03/26/13 07:16 PM
Surr: Isopropylbenzene	61.8	0	47-142		%REC	1	03/26/13 07:16 PM
Surr: Octacosane	125	0	51-124	S	%REC	1	03/26/13 07:16 PM
<b>TRACE METALS: ICP-MS - WATER</b>		<b>SW6020A</b>					
Chromium	<0.00200	0.00200	0.00600		mg/L	1	03/29/13 04:11 PM
<b>8260 WATER VOLATILES BY GC/MS</b>		<b>SW8260C</b>					
1,1,1,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:05 PM
1,1,1-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:05 PM
1,1,2,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:05 PM
1,1,2-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:05 PM
1,1-Dichloroethane	0.0315	0.000200	0.00100		mg/L	1	03/22/13 06:05 PM
1,1-Dichloroethene	0.000480	0.000200	0.00100	J	mg/L	1	03/22/13 06:05 PM
1,1-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:05 PM
1,2,3-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	03/22/13 06:05 PM
1,2,3-Trichloropropane	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:05 PM
1,2,4-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	03/22/13 06:05 PM
1,2,4-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	03/22/13 06:05 PM
1,2-Dibromo-3-chloropropane	<0.00300	0.00300	0.0100		mg/L	1	03/22/13 06:05 PM
1,2-Dibromoethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:05 PM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:05 PM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:05 PM
1,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:05 PM
1,3,5-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	03/22/13 06:05 PM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:05 PM
1,3-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:05 PM
1,4-Dichloro-2-butene	<0.00200	0.00200	0.00200		mg/L	1	03/22/13 06:05 PM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:05 PM
2,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:05 PM
2-Butanone	<0.00500	0.00500	0.0150		mg/L	1	03/22/13 06:05 PM
2-Chloroethylvinylether	<0.00500	0.00500	0.0150		mg/L	1	03/22/13 06:05 PM
2-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:05 PM
2-Hexanone	<0.00500	0.00500	0.0150		mg/L	1	03/22/13 06:05 PM
4-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:05 PM
4-Methyl-2-pentanone	<0.00500	0.00500	0.0150		mg/L	1	03/22/13 06:05 PM
Acetone	0.0160	0.00500	0.0150		mg/L	1	03/22/13 06:05 PM
Acrylonitrile	<0.00100	0.00100	0.00300		mg/L	1	03/22/13 06:05 PM
Benzene	0.00409	0.000200	0.00100		mg/L	1	03/22/13 06:05 PM

**Qualifiers:** \* Value exceeds TCLP Maximum Concentration Level  
C Sample Result or QC discussed in the Case Narrative  
E TPH pattern not Gas or Diesel Range Pattern  
MDL Method Detection Limit  
RL Reporting Limit  
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank  
DF Dilution Factor  
J Analyte detected between MDL and RL  
ND Not Detected at the Method Detection Limit  
S Spike Recovery outside control limits

# DHL Analytical, Inc.

Date: 01-Apr-13

**CLIENT:** Zia Engineering & Environmental  
**Project:** HELSTF Diesel Spill  
**Project No:**  
**Lab Order:** 1303158

**Client Sample ID:** HLSF-0154-DRW-005-0313  
**Lab ID:** 1303158-01  
**Collection Date:** 03/18/13 11:40 AM  
**Matrix:** AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>8260 WATER VOLATILES BY GC/MS</b>							
				<b>SW8260C</b>			Analyst: KL
Bromobenzene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:05 PM
Bromoform	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:05 PM
Bromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:05 PM
Bromodichloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:05 PM
Bromomethane	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:05 PM
Carbon disulfide	<0.00500	0.00500	0.0150		mg/L	1	03/22/13 06:05 PM
Carbon tetrachloride	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:05 PM
Chlorobenzene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:05 PM
Chloroethane	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:05 PM
Chloroform	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:05 PM
Chloromethane	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:05 PM
cis-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:05 PM
cis-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:05 PM
Dibromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:05 PM
Dibromomethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:05 PM
Dichlorodifluoromethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:05 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:05 PM
Iodomethane	<0.00500	0.00500	0.0150		mg/L	1	03/22/13 06:05 PM
Isopropylbenzene	0.00122	0.000200	0.00100		mg/L	1	03/22/13 06:05 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	03/22/13 06:05 PM
Methyl tert-butyl ether	0.00282	0.000300	0.00100		mg/L	1	03/22/13 06:05 PM
Methylene chloride	<0.00250	0.00250	0.00250		mg/L	1	03/22/13 06:05 PM
n-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:05 PM
n-Propylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:05 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:05 PM
p-Isopropyltoluene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:05 PM
sec-Butylbenzene	0.00140	0.000300	0.00100		mg/L	1	03/22/13 06:05 PM
Styrene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:05 PM
tert-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:05 PM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	03/22/13 06:05 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	03/22/13 06:05 PM
trans-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:05 PM
trans-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:05 PM
Trichloroethene	<0.000600	0.000600	0.00200		mg/L	1	03/22/13 06:05 PM
Trichlorofluoromethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:05 PM
Vinyl chloride	<0.000100	0.000100	0.00100		mg/L	1	03/22/13 06:05 PM
Surr: 1,2-Dichloroethane-d4	115	0	70-120	%REC	1	03/22/13 06:05 PM	
Surr: 4-Bromofluorobenzene	110	0	75-120	%REC	1	03/22/13 06:05 PM	

**Qualifiers:** \* Value exceeds TCLP Maximum Concentration Level  
 C Sample Result or QC discussed in the Case Narrative  
 E TPH pattern not Gas or Diesel Range Pattern  
 MDL Method Detection Limit  
 RL Reporting Limit  
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank  
 DF Dilution Factor  
 J Analyte detected between MDL and RL  
 ND Not Detected at the Method Detection Limit  
 S Spike Recovery outside control limits

**DHL Analytical, Inc.****Date:** 01-Apr-13

**CLIENT:** Zia Engineering & Environmental  
**Project:** HELSTF Diesel Spill  
**Project No:**  
**Lab Order:** 1303158

**Client Sample ID:** HLSF-0154-DRW-005-0313  
**Lab ID:** 1303158-01  
**Collection Date:** 03/18/13 11:40 AM  
**Matrix:** AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>8260 WATER VOLATILES BY GC/MS</b>				<b>SW8260C</b>			Analyst: <b>KL</b>
Surr: Dibromofluoromethane	109	0	85-115	%REC	1	03/22/13 06:05 PM	
Surr: Toluene-d8	112	0	85-120	%REC	1	03/22/13 06:05 PM	
<b>HEXAVALENT CHROMIUM-WATER</b>				<b>M3500-CR D</b>			Analyst: <b>LM</b>
Hexavalent Chromium	<0.00800	0.00800	0.0100	mg/L	1	03/19/13 11:36 AM	
<b>PH</b>				<b>M4500-H+ B</b>			Analyst: <b>JBC</b>
pH	7.35	0	0	pH units	1	03/19/13 09:37 AM	
<b>TOTAL ORGANIC CARBON</b>				<b>M5310C</b>			Analyst: <b>JCG</b>
Total Organic Carbon	16.1	1.50	5.00	mg/L	5	03/21/13 10:42 AM	

**Qualifiers:** \* Value exceeds TCLP Maximum Concentration Level  
C Sample Result or QC discussed in the Case Narrative  
E TPH pattern not Gas or Diesel Range Pattern  
MDL Method Detection Limit  
RL Reporting Limit  
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank  
DF Dilution Factor  
J Analyte detected between MDL and RL  
ND Not Detected at the Method Detection Limit  
S Spike Recovery outside control limits

**DHL Analytical, Inc.**
**Date:** 01-Apr-13

**CLIENT:** Zia Engineering & Environmental  
**Project:** HELSTF Diesel Spill  
**Project No:**  
**Lab Order:** 1303158

**Client Sample ID:** HLSF-0154-HCF-001-0313  
**Lab ID:** 1303158-02  
**Collection Date:** 03/18/13 01:35 PM  
**Matrix:** AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>TPH EXTRACTABLE BY GC - WATER</b>							
TPH-DRO C10-C28	5.95	0.800	1.00		mg/L	10	03/27/13 10:09 AM
Surr: Isopropylbenzene	70.4	0	47-142	%REC	10	03/27/13 10:09 AM	
Surr: Octacosane	139	0	51-124	S	%REC	10	03/27/13 10:09 AM
<b>TRACE METALS: ICP-MS - WATER</b>							
Chromium	<0.00200	0.00200	0.00600		mg/L	1	03/29/13 04:17 PM
<b>8260 WATER VOLATILES BY GC/MS</b>							
				<b>SW8260C</b>			Analyst: KL
1,1,1,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:29 PM
1,1,1-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:29 PM
1,1,2,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:29 PM
1,1,2-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:29 PM
1,1-Dichloroethane	0.00379	0.000200	0.00100		mg/L	1	03/22/13 06:29 PM
1,1-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:29 PM
1,1-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:29 PM
1,2,3-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	03/22/13 06:29 PM
1,2,3-Trichloropropane	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:29 PM
1,2,4-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	03/22/13 06:29 PM
1,2,4-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	03/22/13 06:29 PM
1,2-Dibromo-3-chloropropane	<0.00300	0.00300	0.0100		mg/L	1	03/22/13 06:29 PM
1,2-Dibromoethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:29 PM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:29 PM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:29 PM
1,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:29 PM
1,3,5-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	03/22/13 06:29 PM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:29 PM
1,3-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:29 PM
1,4-Dichloro-2-butene	<0.00200	0.00200	0.00200		mg/L	1	03/22/13 06:29 PM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:29 PM
2,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:29 PM
2-Butanone	<0.00500	0.00500	0.0150		mg/L	1	03/22/13 06:29 PM
2-Chloroethylvinylether	<0.00500	0.00500	0.0150		mg/L	1	03/22/13 06:29 PM
2-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:29 PM
2-Hexanone	<0.00500	0.00500	0.0150		mg/L	1	03/22/13 06:29 PM
4-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:29 PM
4-Methyl-2-pentanone	<0.00500	0.00500	0.0150		mg/L	1	03/22/13 06:29 PM
Acetone	0.00752	0.00500	0.0150	J	mg/L	1	03/22/13 06:29 PM
Acrylonitrile	<0.00100	0.00100	0.00300		mg/L	1	03/22/13 06:29 PM
Benzene	0.00547	0.000200	0.00100		mg/L	1	03/22/13 06:29 PM

**Qualifiers:** \* Value exceeds TCLP Maximum Concentration Level  
 C Sample Result or QC discussed in the Case Narrative  
 E TPH pattern not Gas or Diesel Range Pattern  
 MDL Method Detection Limit  
 RL Reporting Limit  
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank  
 DF Dilution Factor  
 J Analyte detected between MDL and RL  
 ND Not Detected at the Method Detection Limit  
 S Spike Recovery outside control limits

**DHL Analytical, Inc.**

Date: 01-Apr-13

**CLIENT:** Zia Engineering & Environmental  
**Project:** HELSTF Diesel Spill  
**Project No:**  
**Lab Order:** 1303158

**Client Sample ID:** HLSF-0154-HCF-001-0313  
**Lab ID:** 1303158-02  
**Collection Date:** 03/18/13 01:35 PM  
**Matrix:** AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>8260 WATER VOLATILES BY GC/MS</b>							
				<b>SW8260C</b>			<b>Analyst: KL</b>
Bromobenzene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:29 PM
Bromoform	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:29 PM
Bromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:29 PM
Bromodichloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:29 PM
Bromomethane	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:29 PM
Carbon disulfide	<0.00500	0.00500	0.0150		mg/L	1	03/22/13 06:29 PM
Carbon tetrachloride	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:29 PM
Chlorobenzene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:29 PM
Chloroethane	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:29 PM
Chloroform	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:29 PM
Chloromethane	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:29 PM
cis-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:29 PM
cis-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:29 PM
Dibromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:29 PM
Dibromomethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:29 PM
Dichlorodifluoromethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:29 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:29 PM
Iodomethane	<0.00500	0.00500	0.0150		mg/L	1	03/22/13 06:29 PM
Isopropylbenzene	0.00168	0.000200	0.00100		mg/L	1	03/22/13 06:29 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	03/22/13 06:29 PM
Methyl tert-butyl ether	0.00366	0.000300	0.00100		mg/L	1	03/22/13 06:29 PM
Methylene chloride	<0.00250	0.00250	0.00250		mg/L	1	03/22/13 06:29 PM
n-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:29 PM
n-Propylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:29 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:29 PM
p-Isopropyltoluene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:29 PM
sec-Butylbenzene	0.00193	0.000300	0.00100		mg/L	1	03/22/13 06:29 PM
Styrene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:29 PM
tert-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:29 PM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	03/22/13 06:29 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	03/22/13 06:29 PM
trans-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:29 PM
trans-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:29 PM
Trichloroethene	<0.000600	0.000600	0.00200		mg/L	1	03/22/13 06:29 PM
Trichlorofluoromethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:29 PM
Vinyl chloride	<0.000100	0.000100	0.00100		mg/L	1	03/22/13 06:29 PM
Surr: 1,2-Dichloroethane-d4	117	0	70-120	%REC	1	03/22/13 06:29 PM	
Surr: 4-Bromofluorobenzene	112	0	75-120	%REC	1	03/22/13 06:29 PM	

**Qualifiers:** \* Value exceeds TCLP Maximum Concentration Level  
 C Sample Result or QC discussed in the Case Narrative  
 E TPH pattern not Gas or Diesel Range Pattern  
 MDL Method Detection Limit  
 RL Reporting Limit  
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank  
 DF Dilution Factor  
 J Analyte detected between MDL and RL  
 ND Not Detected at the Method Detection Limit  
 S Spike Recovery outside control limits

**DHL Analytical, Inc.****Date:** 01-Apr-13

**CLIENT:** Zia Engineering & Environmental  
**Project:** HELSTF Diesel Spill  
**Project No:**  
**Lab Order:** 1303158

**Client Sample ID:** HLSF-0154-HCF-001-0313  
**Lab ID:** 1303158-02  
**Collection Date:** 03/18/13 01:35 PM  
**Matrix:** AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>8260 WATER VOLATILES BY GC/MS</b>				<b>SW8260C</b>			Analyst: <b>KL</b>
Surr: Dibromofluoromethane	117	0	85-115	S	%REC	1	03/22/13 06:29 PM
Surr: Toluene-d8	108	0	85-120		%REC	1	03/22/13 06:29 PM
<b>HEXAVALENT CHROMIUM-WATER</b>				<b>M3500-CR D</b>			Analyst: <b>LM</b>
Hexavalent Chromium	<0.00800	0.00800	0.0100		mg/L	1	03/19/13 11:38 AM
<b>PH</b>				<b>M4500-H+ B</b>			Analyst: <b>JBC</b>
pH	7.18	0	0		pH units	1	03/19/13 09:41 AM
<b>TOTAL ORGANIC CARBON</b>				<b>M5310C</b>			Analyst: <b>JCG</b>
Total Organic Carbon	14.2	1.50	5.00		mg/L	5	03/21/13 11:00 AM

**Qualifiers:** \* Value exceeds TCLP Maximum Concentration Level  
C Sample Result or QC discussed in the Case Narrative  
E TPH pattern not Gas or Diesel Range Pattern  
MDL Method Detection Limit  
RL Reporting Limit  
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank  
DF Dilution Factor  
J Analyte detected between MDL and RL  
ND Not Detected at the Method Detection Limit  
S Spike Recovery outside control limits

# DHL Analytical, Inc.

Date: 01-Apr-13

**CLIENT:** Zia Engineering & Environmental  
**Project:** HELSTF Diesel Spill  
**Project No:**  
**Lab Order:** 1303158

**Client Sample ID:** HLSF-0154-RB-001-0313  
**Lab ID:** 1303158-03  
**Collection Date:** 03/18/13 02:15 PM  
**Matrix:** AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>TPH EXTRACTABLE BY GC - WATER</b>							
TPH-DRO C10-C28	0.167	0.0800	0.100		mg/L	1	03/26/13 07:34 PM
Surr: Isopropylbenzene	68.7	0	47-142	%REC	1	1	03/26/13 07:34 PM
Surr: Octacosane	114	0	51-124	%REC	1	1	03/26/13 07:34 PM
<b>TRACE METALS: ICP-MS - WATER</b>							
Chromium	<0.00200	0.00200	0.00600		mg/L	1	03/29/13 03:58 PM
<b>8260 WATER VOLATILES BY GC/MS</b>							
1,1,1,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:53 PM
1,1,1-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:53 PM
1,1,2,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:53 PM
1,1,2-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:53 PM
1,1-Dichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:53 PM
1,1-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:53 PM
1,1-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:53 PM
1,2,3-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	03/22/13 06:53 PM
1,2,3-Trichloropropane	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:53 PM
1,2,4-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	03/22/13 06:53 PM
1,2,4-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	03/22/13 06:53 PM
1,2-Dibromo-3-chloropropane	<0.00300	0.00300	0.0100		mg/L	1	03/22/13 06:53 PM
1,2-Dibromoethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:53 PM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:53 PM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:53 PM
1,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:53 PM
1,3,5-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	03/22/13 06:53 PM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:53 PM
1,3-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:53 PM
1,4-Dichloro-2-butene	<0.00200	0.00200	0.00200		mg/L	1	03/22/13 06:53 PM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:53 PM
2,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:53 PM
2-Butanone	<0.00500	0.00500	0.0150		mg/L	1	03/22/13 06:53 PM
2-Chloroethylvinylether	<0.00500	0.00500	0.0150		mg/L	1	03/22/13 06:53 PM
2-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:53 PM
2-Hexanone	<0.00500	0.00500	0.0150		mg/L	1	03/22/13 06:53 PM
4-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:53 PM
4-Methyl-2-pentanone	<0.00500	0.00500	0.0150		mg/L	1	03/22/13 06:53 PM
Acetone	0.0151	0.00500	0.0150		mg/L	1	03/22/13 06:53 PM
Acrylonitrile	<0.00100	0.00100	0.00300		mg/L	1	03/22/13 06:53 PM
Benzene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:53 PM

**Qualifiers:** \* Value exceeds TCLP Maximum Concentration Level  
C Sample Result or QC discussed in the Case Narrative  
E TPH pattern not Gas or Diesel Range Pattern  
MDL Method Detection Limit  
RL Reporting Limit  
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank  
DF Dilution Factor  
J Analyte detected between MDL and RL  
ND Not Detected at the Method Detection Limit  
S Spike Recovery outside control limits

# DHL Analytical, Inc.

Date: 01-Apr-13

<b>CLIENT:</b>	Zia Engineering & Environmental	<b>Client Sample ID:</b>	HLSF-0154-RB-001-0313
<b>Project:</b>	HELSTF Diesel Spill	<b>Lab ID:</b>	1303158-03
<b>Project No:</b>		<b>Collection Date:</b>	03/18/13 02:15 PM
<b>Lab Order:</b>	1303158	<b>Matrix:</b>	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>8260 WATER VOLATILES BY GC/MS</b>							
				<b>SW8260C</b>			Analyst: KL
Bromobenzene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:53 PM
Bromoform	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:53 PM
Bromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:53 PM
Bromodichloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:53 PM
Bromomethane	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:53 PM
Carbon disulfide	<0.00500	0.00500	0.0150		mg/L	1	03/22/13 06:53 PM
Carbon tetrachloride	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:53 PM
Chlorobenzene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:53 PM
Chloroethane	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:53 PM
Chloroform	0.000430	0.000300	0.00100	J	mg/L	1	03/22/13 06:53 PM
Chloromethane	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:53 PM
cis-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:53 PM
cis-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:53 PM
Dibromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:53 PM
Dibromomethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:53 PM
Dichlorodifluoromethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:53 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:53 PM
Iodomethane	<0.00500	0.00500	0.0150		mg/L	1	03/22/13 06:53 PM
Isopropylbenzene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:53 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	03/22/13 06:53 PM
Methyl tert-butyl ether	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:53 PM
Methylene chloride	<0.00250	0.00250	0.00250		mg/L	1	03/22/13 06:53 PM
n-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:53 PM
n-Propylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:53 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:53 PM
p-Isopropyltoluene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:53 PM
sec-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:53 PM
Styrene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:53 PM
tert-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 06:53 PM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	03/22/13 06:53 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	03/22/13 06:53 PM
trans-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:53 PM
trans-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:53 PM
Trichloroethene	<0.000600	0.000600	0.00200		mg/L	1	03/22/13 06:53 PM
Trichlorofluoromethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 06:53 PM
Vinyl chloride	<0.000100	0.000100	0.00100		mg/L	1	03/22/13 06:53 PM
Surr: 1,2-Dichloroethane-d4	114	0	70-120	%REC	1		03/22/13 06:53 PM
Surr: 4-Bromofluorobenzene	111	0	75-120	%REC	1		03/22/13 06:53 PM

**Qualifiers:**

- \* Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- N Parameter not NELAC certified

B Analyte detected in the associated Method Blank  
DF Dilution Factor  
J Analyte detected between MDL and RL  
ND Not Detected at the Method Detection Limit  
S Spike Recovery outside control limits

**DHL Analytical, Inc.****Date:** 01-Apr-13

**CLIENT:** Zia Engineering & Environmental  
**Project:** HELSTF Diesel Spill  
**Project No:**  
**Lab Order:** 1303158

**Client Sample ID:** HLSF-0154-RB-001-0313  
**Lab ID:** 1303158-03  
**Collection Date:** 03/18/13 02:15 PM  
**Matrix:** AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>8260 WATER VOLATILES BY GC/MS</b>							
Surr: Dibromofluoromethane	112	0	85-115	%REC	1	03/22/13 06:53 PM	
Surr: Toluene-d8	112	0	85-120	%REC	1	03/22/13 06:53 PM	
<b>HEXAVALENT CHROMIUM-WATER</b>							
Hexavalent Chromium	<0.00800	0.00800	0.0100	mg/L	1	03/19/13 11:36 AM	
<b>PH</b>							
pH	8.36	0	0	pH units	1	03/19/13 09:43 AM	
<b>TOTAL ORGANIC CARBON</b>							
Total Organic Carbon	0.716	0.300	1.00	J	mg/L	1	03/21/13 11:18 AM

**Qualifiers:** \* Value exceeds TCLP Maximum Concentration Level  
C Sample Result or QC discussed in the Case Narrative  
E TPH pattern not Gas or Diesel Range Pattern  
MDL Method Detection Limit  
RL Reporting Limit  
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank  
DF Dilution Factor  
J Analyte detected between MDL and RL  
ND Not Detected at the Method Detection Limit  
S Spike Recovery outside control limits

# DHL Analytical, Inc.

Date: 01-Apr-13

**CLIENT:** Zia Engineering & Environmental  
**Project:** HELSTF Diesel Spill  
**Project No:**  
**Lab Order:** 1303158

**Client Sample ID:** HLSF-0154-FB-001-0313  
**Lab ID:** 1303158-04  
**Collection Date:** 03/18/13 01:30 PM  
**Matrix:** FIELD BLANK

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>8260 WATER VOLATILES BY GC/MS</b>							
				<b>SW8260C</b>			Analyst: KL
1,1,1,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:17 PM
1,1,1-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:17 PM
1,1,2,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:17 PM
1,1,2-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:17 PM
1,1-Dichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:17 PM
1,1-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:17 PM
1,1-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:17 PM
1,2,3-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	03/22/13 07:17 PM
1,2,3-Trichloropropane	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 07:17 PM
1,2,4-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	03/22/13 07:17 PM
1,2,4-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	03/22/13 07:17 PM
1,2-Dibromo-3-chloropropane	<0.00300	0.00300	0.0100		mg/L	1	03/22/13 07:17 PM
1,2-Dibromoethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:17 PM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 07:17 PM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 07:17 PM
1,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:17 PM
1,3,5-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	03/22/13 07:17 PM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 07:17 PM
1,3-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:17 PM
1,4-Dichloro-2-butene	<0.00200	0.00200	0.00200		mg/L	1	03/22/13 07:17 PM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 07:17 PM
2,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:17 PM
2-Butanone	<0.00500	0.00500	0.0150		mg/L	1	03/22/13 07:17 PM
2-Chloroethylvinylether	<0.00500	0.00500	0.0150		mg/L	1	03/22/13 07:17 PM
2-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 07:17 PM
2-Hexanone	<0.00500	0.00500	0.0150		mg/L	1	03/22/13 07:17 PM
4-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 07:17 PM
4-Methyl-2-pentanone	<0.00500	0.00500	0.0150		mg/L	1	03/22/13 07:17 PM
Acetone	0.0318	0.00500	0.0150		mg/L	1	03/22/13 07:17 PM
Acrylonitrile	<0.00100	0.00100	0.00300		mg/L	1	03/22/13 07:17 PM
Benzene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:17 PM
Bromobenzene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:17 PM
Bromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:17 PM
Bromodichloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:17 PM
Bromoform	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:17 PM
Bromomethane	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 07:17 PM
Carbon disulfide	<0.00500	0.00500	0.0150		mg/L	1	03/22/13 07:17 PM
Carbon tetrachloride	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:17 PM

**Qualifiers:** \* Value exceeds TCLP Maximum Concentration Level  
 C Sample Result or QC discussed in the Case Narrative  
 E TPH pattern not Gas or Diesel Range Pattern  
 MDL Method Detection Limit  
 RL Reporting Limit  
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank  
 DF Dilution Factor  
 J Analyte detected between MDL and RL  
 ND Not Detected at the Method Detection Limit  
 S Spike Recovery outside control limits

# DHL Analytical, Inc.

Date: 01-Apr-13

**CLIENT:** Zia Engineering & Environmental  
**Project:** HELSTF Diesel Spill  
**Project No:**  
**Lab Order:** 1303158

**Client Sample ID:** HLSF-0154-FB-001-0313  
**Lab ID:** 1303158-04  
**Collection Date:** 03/18/13 01:30 PM  
**Matrix:** FIELD BLANK

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>8260 WATER VOLATILES BY GC/MS</b>							
				<b>SW8260C</b>			Analyst: KL
Chlorobenzene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:17 PM
Chloroethane	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 07:17 PM
Chloroform	0.000680	0.000300	0.00100	J	mg/L	1	03/22/13 07:17 PM
Chloromethane	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 07:17 PM
cis-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:17 PM
cis-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:17 PM
Dibromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:17 PM
Dibromomethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:17 PM
Dichlorodifluoromethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:17 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 07:17 PM
Iodomethane	<0.00500	0.00500	0.0150		mg/L	1	03/22/13 07:17 PM
Isopropylbenzene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:17 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	03/22/13 07:17 PM
Methyl tert-butyl ether	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 07:17 PM
Methylene chloride	<0.00250	0.00250	0.00250		mg/L	1	03/22/13 07:17 PM
n-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 07:17 PM
n-Propylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 07:17 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 07:17 PM
p-Isopropyltoluene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 07:17 PM
sec-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 07:17 PM
Styrene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:17 PM
tert-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 07:17 PM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	03/22/13 07:17 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	03/22/13 07:17 PM
trans-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:17 PM
trans-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:17 PM
Trichloroethene	<0.000600	0.000600	0.00200		mg/L	1	03/22/13 07:17 PM
Trichlorofluoromethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:17 PM
Vinyl chloride	<0.000100	0.000100	0.00100		mg/L	1	03/22/13 07:17 PM
Surr: 1,2-Dichloroethane-d4	113	0	70-120	%REC	1	03/22/13 07:17 PM	
Surr: 4-Bromofluorobenzene	113	0	75-120	%REC	1	03/22/13 07:17 PM	
Surr: Dibromofluoromethane	111	0	85-115	%REC	1	03/22/13 07:17 PM	
Surr: Toluene-d8	110	0	85-120	%REC	1	03/22/13 07:17 PM	

**Qualifiers:** \* Value exceeds TCLP Maximum Concentration Level  
 C Sample Result or QC discussed in the Case Narrative  
 E TPH pattern not Gas or Diesel Range Pattern  
 MDL Method Detection Limit  
 RL Reporting Limit  
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank  
 DF Dilution Factor  
 J Analyte detected between MDL and RL  
 ND Not Detected at the Method Detection Limit  
 S Spike Recovery outside control limits

# DHL Analytical, Inc.

Date: 01-Apr-13

<b>CLIENT:</b>	Zia Engineering & Environmental	<b>Client Sample ID:</b>	HLSF-0154-DRW-012-0313
<b>Project:</b>	HELSTF Diesel Spill	<b>Lab ID:</b>	1303158-05
<b>Project No:</b>		<b>Collection Date:</b>	03/18/13 03:15 PM
<b>Lab Order:</b>	1303158	<b>Matrix:</b>	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>TPH EXTRACTABLE BY GC - WATER</b>							
TPH-DRO C10-C28	<0.0800	0.0800	0.100		mg/L	1	03/26/13 07:43 PM
Surr: Isopropylbenzene	72.1	0	47-142	%REC	1	1	03/26/13 07:43 PM
Surr: Octacosane	114	0	51-124	%REC	1	1	03/26/13 07:43 PM
<b>TRACE METALS: ICP-MS - WATER</b>							
Chromium	0.711	0.00200	0.00600		mg/L	1	03/29/13 04:23 PM
<b>8260 WATER VOLATILES BY GC/MS</b>							
				<b>SW8260C</b>			<b>Analyst: KL</b>
1,1,1,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:42 PM
1,1,1-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:42 PM
1,1,2,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:42 PM
1,1,2-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:42 PM
1,1-Dichloroethane	0.00158	0.000200	0.00100		mg/L	1	03/22/13 07:42 PM
1,1-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:42 PM
1,1-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:42 PM
1,2,3-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	03/22/13 07:42 PM
1,2,3-Trichloropropane	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 07:42 PM
1,2,4-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	03/22/13 07:42 PM
1,2,4-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	03/22/13 07:42 PM
1,2-Dibromo-3-chloropropane	<0.00300	0.00300	0.0100		mg/L	1	03/22/13 07:42 PM
1,2-Dibromoethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:42 PM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 07:42 PM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 07:42 PM
1,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:42 PM
1,3,5-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	03/22/13 07:42 PM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 07:42 PM
1,3-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:42 PM
1,4-Dichloro-2-butene	<0.00200	0.00200	0.00200		mg/L	1	03/22/13 07:42 PM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 07:42 PM
2,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:42 PM
2-Butanone	<0.00500	0.00500	0.0150		mg/L	1	03/22/13 07:42 PM
2-Chloroethylvinylether	<0.00500	0.00500	0.0150		mg/L	1	03/22/13 07:42 PM
2-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 07:42 PM
2-Hexanone	<0.00500	0.00500	0.0150		mg/L	1	03/22/13 07:42 PM
4-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 07:42 PM
4-Methyl-2-pentanone	<0.00500	0.00500	0.0150		mg/L	1	03/22/13 07:42 PM
Acetone	0.0239	0.00500	0.0150		mg/L	1	03/22/13 07:42 PM
Acrylonitrile	<0.00100	0.00100	0.00300		mg/L	1	03/22/13 07:42 PM
Benzene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:42 PM

**Qualifiers:**

- \* Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- N Parameter not NELAC certified

B Analyte detected in the associated Method Blank  
DF Dilution Factor  
J Analyte detected between MDL and RL  
ND Not Detected at the Method Detection Limit  
S Spike Recovery outside control limits

# DHL Analytical, Inc.

Date: 01-Apr-13

**CLIENT:** Zia Engineering & Environmental  
**Project:** HELSTF Diesel Spill  
**Project No:**  
**Lab Order:** 1303158

**Client Sample ID:** HLSF-0154-DRW-012-0313  
**Lab ID:** 1303158-05  
**Collection Date:** 03/18/13 03:15 PM  
**Matrix:** AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>8260 WATER VOLATILES BY GC/MS</b>							
				<b>SW8260C</b>			Analyst: KL
Bromobenzene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:42 PM
Bromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:42 PM
Bromodichloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:42 PM
Bromoform	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:42 PM
Bromomethane	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 07:42 PM
Carbon disulfide	<0.00500	0.00500	0.0150		mg/L	1	03/22/13 07:42 PM
Carbon tetrachloride	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:42 PM
Chlorobenzene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:42 PM
Chloroethane	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 07:42 PM
Chloroform	0.000430	0.000300	0.00100	J	mg/L	1	03/22/13 07:42 PM
Chloromethane	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 07:42 PM
cis-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:42 PM
cis-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:42 PM
Dibromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:42 PM
Dibromomethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:42 PM
Dichlorodifluoromethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:42 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 07:42 PM
Iodomethane	<0.00500	0.00500	0.0150		mg/L	1	03/22/13 07:42 PM
Isopropylbenzene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:42 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	03/22/13 07:42 PM
Methyl tert-butyl ether	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 07:42 PM
Methylene chloride	<0.00250	0.00250	0.00250		mg/L	1	03/22/13 07:42 PM
n-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 07:42 PM
n-Propylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 07:42 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 07:42 PM
p-Isopropyltoluene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 07:42 PM
sec-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 07:42 PM
Styrene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:42 PM
tert-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 07:42 PM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	03/22/13 07:42 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	03/22/13 07:42 PM
trans-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:42 PM
trans-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:42 PM
Trichloroethene	0.00773	0.000600	0.00200		mg/L	1	03/22/13 07:42 PM
Trichlorofluoromethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 07:42 PM
Vinyl chloride	<0.000100	0.000100	0.00100		mg/L	1	03/22/13 07:42 PM
Surr: 1,2-Dichloroethane-d4	114	0	70-120	%REC	1	03/22/13 07:42 PM	
Surr: 4-Bromofluorobenzene	113	0	75-120	%REC	1	03/22/13 07:42 PM	

**Qualifiers:** \* Value exceeds TCLP Maximum Concentration Level  
 C Sample Result or QC discussed in the Case Narrative  
 E TPH pattern not Gas or Diesel Range Pattern  
 MDL Method Detection Limit  
 RL Reporting Limit  
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank  
 DF Dilution Factor  
 J Analyte detected between MDL and RL  
 ND Not Detected at the Method Detection Limit  
 S Spike Recovery outside control limits

**DHL Analytical, Inc.****Date:** 01-Apr-13

**CLIENT:** Zia Engineering & Environmental  
**Project:** HELSTF Diesel Spill  
**Project No:**  
**Lab Order:** 1303158

**Client Sample ID:** HLSF-0154-DRW-012-0313  
**Lab ID:** 1303158-05  
**Collection Date:** 03/18/13 03:15 PM  
**Matrix:** AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>8260 WATER VOLATILES BY GC/MS</b>				<b>SW8260C</b>			Analyst: <b>KL</b>
Surr: Dibromofluoromethane	111	0	85-115	%REC	1	03/22/13 07:42 PM	
Surr: Toluene-d8	113	0	85-120	%REC	1	03/22/13 07:42 PM	
<b>HEXAVALENT CHROMIUM-WATER</b>				<b>M3500-CR D</b>			Analyst: <b>LM</b>
Hexavalent Chromium	<0.00800	0.00800	0.0100	mg/L	1	03/19/13 11:40 AM	
<b>PH</b>				<b>M4500-H+ B</b>			Analyst: <b>JBC</b>
pH	7.28	0	0	pH units	1	03/19/13 09:46 AM	
<b>TOTAL ORGANIC CARBON</b>				<b>M5310C</b>			Analyst: <b>JCG</b>
Total Organic Carbon	1.75	0.300	1.00	mg/L	1	03/21/13 11:44 AM	

**Qualifiers:** \* Value exceeds TCLP Maximum Concentration Level  
C Sample Result or QC discussed in the Case Narrative  
E TPH pattern not Gas or Diesel Range Pattern  
MDL Method Detection Limit  
RL Reporting Limit  
N Parameter not NELAC certified

B Analyte detected in the associated Method Blank  
DF Dilution Factor  
J Analyte detected between MDL and RL  
ND Not Detected at the Method Detection Limit  
S Spike Recovery outside control limits

# DHL Analytical, Inc.

Date: 01-Apr-13

**CLIENT:** Zia Engineering & Environmental  
**Project:** HELSTF Diesel Spill  
**Project No:**  
**Lab Order:** 1303158

**Client Sample ID:** HLSF-0154-TB-0313  
**Lab ID:** 1303158-06  
**Collection Date:** 03/18/13 03:30 PM  
**Matrix:** TRIP BLANK

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>8260 WATER VOLATILES BY GC/MS</b>							
				<b>SW8260C</b>			Analyst: KL
1,1,1,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 08:06 PM
1,1,1-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 08:06 PM
1,1,2,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 08:06 PM
1,1,2-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 08:06 PM
1,1-Dichloroethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 08:06 PM
1,1-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 08:06 PM
1,1-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 08:06 PM
1,2,3-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	03/22/13 08:06 PM
1,2,3-Trichloropropane	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 08:06 PM
1,2,4-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	03/22/13 08:06 PM
1,2,4-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	03/22/13 08:06 PM
1,2-Dibromo-3-chloropropane	<0.00300	0.00300	0.0100		mg/L	1	03/22/13 08:06 PM
1,2-Dibromoethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 08:06 PM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 08:06 PM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 08:06 PM
1,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 08:06 PM
1,3,5-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	03/22/13 08:06 PM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 08:06 PM
1,3-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 08:06 PM
1,4-Dichloro-2-butene	<0.00200	0.00200	0.00200		mg/L	1	03/22/13 08:06 PM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 08:06 PM
2,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 08:06 PM
2-Butanone	<0.00500	0.00500	0.0150		mg/L	1	03/22/13 08:06 PM
2-Chloroethylvinylether	<0.00500	0.00500	0.0150		mg/L	1	03/22/13 08:06 PM
2-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 08:06 PM
2-Hexanone	<0.00500	0.00500	0.0150		mg/L	1	03/22/13 08:06 PM
4-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 08:06 PM
4-Methyl-2-pentanone	<0.00500	0.00500	0.0150		mg/L	1	03/22/13 08:06 PM
Acetone	<0.00500	0.00500	0.0150		mg/L	1	03/22/13 08:06 PM
Acrylonitrile	<0.00100	0.00100	0.00300		mg/L	1	03/22/13 08:06 PM
Benzene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 08:06 PM
Bromobenzene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 08:06 PM
Bromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 08:06 PM
Bromodichloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 08:06 PM
Bromoform	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 08:06 PM
Bromomethane	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 08:06 PM
Carbon disulfide	<0.00500	0.00500	0.0150		mg/L	1	03/22/13 08:06 PM
Carbon tetrachloride	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 08:06 PM

**Qualifiers:** \* Value exceeds TCLP Maximum Concentration Level  
 C Sample Result or QC discussed in the Case Narrative  
 E TPH pattern not Gas or Diesel Range Pattern  
 MDL Method Detection Limit  
 RL Reporting Limit  
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank  
 DF Dilution Factor  
 J Analyte detected between MDL and RL  
 ND Not Detected at the Method Detection Limit  
 S Spike Recovery outside control limits

# DHL Analytical, Inc.

Date: 01-Apr-13

**CLIENT:** Zia Engineering & Environmental  
**Project:** HELSTF Diesel Spill  
**Project No:**  
**Lab Order:** 1303158

**Client Sample ID:** HLSF-0154-TB-0313  
**Lab ID:** 1303158-06  
**Collection Date:** 03/18/13 03:30 PM  
**Matrix:** TRIP BLANK

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>8260 WATER VOLATILES BY GC/MS</b>							
				<b>SW8260C</b>			Analyst: KL
Chlorobenzene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 08:06 PM
Chloroethane	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 08:06 PM
Chloroform	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 08:06 PM
Chloromethane	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 08:06 PM
cis-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 08:06 PM
cis-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 08:06 PM
Dibromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 08:06 PM
Dibromomethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 08:06 PM
Dichlorodifluoromethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 08:06 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 08:06 PM
Iodomethane	<0.00500	0.00500	0.0150		mg/L	1	03/22/13 08:06 PM
Isopropylbenzene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 08:06 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	03/22/13 08:06 PM
Methyl tert-butyl ether	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 08:06 PM
Methylene chloride	<0.00250	0.00250	0.00250		mg/L	1	03/22/13 08:06 PM
n-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 08:06 PM
n-Propylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 08:06 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 08:06 PM
p-Isopropyltoluene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 08:06 PM
sec-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 08:06 PM
Styrene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 08:06 PM
tert-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	03/22/13 08:06 PM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	03/22/13 08:06 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	03/22/13 08:06 PM
trans-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 08:06 PM
trans-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 08:06 PM
Trichloroethene	<0.000600	0.000600	0.00200		mg/L	1	03/22/13 08:06 PM
Trichlorofluoromethane	<0.000200	0.000200	0.00100		mg/L	1	03/22/13 08:06 PM
Vinyl chloride	<0.000100	0.000100	0.00100		mg/L	1	03/22/13 08:06 PM
Surr: 1,2-Dichloroethane-d4	113	0	70-120	%REC	1	03/22/13 08:06 PM	
Surr: 4-Bromofluorobenzene	115	0	75-120	%REC	1	03/22/13 08:06 PM	
Surr: Dibromofluoromethane	111	0	85-115	%REC	1	03/22/13 08:06 PM	
Surr: Toluene-d8	111	0	85-120	%REC	1	03/22/13 08:06 PM	

**Qualifiers:** \* Value exceeds TCLP Maximum Concentration Level  
 C Sample Result or QC discussed in the Case Narrative  
 E TPH pattern not Gas or Diesel Range Pattern  
 MDL Method Detection Limit  
 RL Reporting Limit  
 N Parameter not NELAC certified

B Analyte detected in the associated Method Blank  
 DF Dilution Factor  
 J Analyte detected between MDL and RL  
 ND Not Detected at the Method Detection Limit  
 S Spike Recovery outside control limits

**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1303158  
**Project:** HELSTF Diesel Spill

**ANALYTICAL QC SUMMARY REPORT****RunID:** GC15\_130326A

The QC data in batch 56549 applies to the following samples: 1303158-01E, 1303158-02E, 1303158-03E, 1303158-05E

Sample ID: LCS-56549	Batch ID: 56549	TestNo: M8015D	Units: mg/L							
SampType: LCS	Run ID: GC15_130326A	Analysis Date: 3/26/2013 4:32:54 PM	Prep Date: 3/22/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	1.02	0.100	1.250	0	81.7	50	114			
Surr: Isopropylbenzene	0.0600		0.1000		60.0	47	142			
Surr: Octacosane	0.106		0.1000		106	51	124			
Sample ID: MB-56549	Batch ID: 56549	TestNo: M8015D	Units: mg/L							
SampType: MBLK	Run ID: GC15_130326A	Analysis Date: 3/26/2013 4:50:51 PM	Prep Date: 3/22/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	<0.0800	0.100								
Surr: Isopropylbenzene	0.0583		0.1000		58.3	47	142			
Surr: Octacosane	0.109		0.1000		109	51	124			
Sample ID: 1303190-01DMS	Batch ID: 56549	TestNo: M8015D	Units: mg/L							
SampType: MS	Run ID: GC15_130326A	Analysis Date: 3/26/2013 7:52:06 PM	Prep Date: 3/22/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	1.76	0.100	1.250	0.4600	104	50	114			
Surr: Isopropylbenzene	0.0673		0.1000		67.3	47	142			
Surr: Octacosane	0.119		0.1000		119	51	124			
Sample ID: 1303190-01DMSD	Batch ID: 56549	TestNo: M8015D	Units: mg/L							
SampType: MSD	Run ID: GC15_130326A	Analysis Date: 3/26/2013 8:01:04 PM	Prep Date: 3/22/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	1.57	0.100	1.250	0.4600	89.2	50	114	10.9	30	
Surr: Isopropylbenzene	0.0659		0.1000		65.9	47	142	0	0	
Surr: Octacosane	0.112		0.1000		112	51	124	0	0	

**Qualifiers:** B Analyte detected in the associated Method Blank  
J Analyte detected between MDL and RL  
ND Not Detected at the Method Detection Limit  
RL Reporting Limit  
J Analyte detected between SDL and RL

DF Dilution Factor  
MDL Method Detection Limit  
R RPD outside accepted control limits  
S Spike Recovery outside control limits  
N Parameter not NELAC certified

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**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1303158  
**Project:** HELSTF Diesel Spill

## ANALYTICAL QC SUMMARY REPORT

**RunID:** GC15\_130326A

Sample ID: ICV-130326	Batch ID: R65522	TestNo: M8015D			Units:	mg/L				
SampType: ICV	Run ID: GC15_130326A	Analysis Date: 3/26/2013 4:11:27 PM			Prep Date:					
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	505	0.100	500.0	0	101	80	120			
Surr: Isopropylbenzene	23.6		25.00		94.5	80	120			
Surr: Octacosane	22.3		25.00		89.2	80	120			

Sample ID: CCV1-130326	Batch ID: R65522	TestNo: M8015D			Units:	mg/L				
SampType: CCV	Run ID: GC15_130326A	Analysis Date: 3/26/2013 6:29:31 PM			Prep Date:					
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	248	0.100	250.0	0	99.3	80	120			
Surr: Isopropylbenzene	12.2		12.50		97.8	80	120			
Surr: Octacosane	11.4		12.50		91.0	80	120			

Sample ID: CCV2-130326	Batch ID: R65522	TestNo: M8015D			Units:	mg/L				
SampType: CCV	Run ID: GC15_130326A	Analysis Date: 3/26/2013 8:10:01 PM			Prep Date:					
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	265	0.100	250.0	0	106	80	120			
Surr: Isopropylbenzene	13.0		12.50		104	80	120			
Surr: Octacosane	11.6		12.50		93.0	80	120			

**Qualifiers:** B Analyte detected in the associated Method Blank  
J Analyte detected between MDL and RL  
ND Not Detected at the Method Detection Limit  
RL Reporting Limit  
J Analyte detected between SDL and RL

DF Dilution Factor  
MDL Method Detection Limit  
R RPD outside accepted control limits  
S Spike Recovery outside control limits  
N Parameter not NELAC certified

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**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1303158  
**Project:** HELSTF Diesel Spill

## ANALYTICAL QC SUMMARY REPORT

**RunID:** GC15\_130327A

The QC data in batch 56549 applies to the following samples: 1303158-01E, 1303158-02E, 1303158-03E, 1303158-05E

Sample ID: <b>SBLK-130327</b>	Batch ID: <b>56549</b>	TestNo: <b>M8015D</b>	Units: <b>mg/L</b>			
SampType: <b>MBLK</b>	Run ID: <b>GC15_130327A</b>	Analysis Date: <b>3/27/2013 9:51:54 AM</b>	Prep Date:			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit HighLimit %RPD RPDLimit Qual
TPH-DRO C10-C28	0.199	0.100				

**Qualifiers:** B Analyte detected in the associated Method Blank  
J Analyte detected between MDL and RL  
ND Not Detected at the Method Detection Limit  
RL Reporting Limit  
J Analyte detected between SDL and RL

DF Dilution Factor  
MDL Method Detection Limit  
R RPD outside accepted control limits  
S Spike Recovery outside control limits  
N Parameter not NELAC certified

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**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1303158  
**Project:** HELSTF Diesel Spill

## ANALYTICAL QC SUMMARY REPORT

**RunID:** GC15\_130327A

Sample ID: ICV-130327	Batch ID: R65518	TestNo:	M8015D	Units:	mg/L					
SampType: ICV	Run ID: GC15_130327A	Analysis Date: 3/27/2013 9:40:46 AM			Prep Date:					
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	582	0.100	500.0	0	116	80	120			
Surr: Isopropylbenzene	27.1		25.00		108	80	120			
Surr: Octacosane	24.7		25.00		98.8	80	120			

Sample ID: CCV1-130327	Batch ID: R65518	TestNo:	M8015D	Units:	mg/L					
SampType: CCV	Run ID: GC15_130327A	Analysis Date: 3/27/2013 12:16:58 PM			Prep Date:					
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	278	0.100	250.0	0	111	80	120			
Surr: Isopropylbenzene	12.9		12.50		103	80	120			
Surr: Octacosane	12.9		12.50		103	80	120			

**Qualifiers:** B Analyte detected in the associated Method Blank  
J Analyte detected between MDL and RL  
ND Not Detected at the Method Detection Limit  
RL Reporting Limit  
J Analyte detected between SDL and RL

DF Dilution Factor  
MDL Method Detection Limit  
R RPD outside accepted control limits  
S Spike Recovery outside control limits  
N Parameter not NELAC certified

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**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1303158  
**Project:** HELSTF Diesel Spill

## ANALYTICAL QC SUMMARY REPORT

**RunID:** ICP-MS3\_130329B

The QC data in batch 56631 applies to the following samples: 1303158-01C, 1303158-02C, 1303158-03C, 1303158-05C

Sample ID: <b>MB-56631</b>	Batch ID: <b>56631</b>	TestNo: <b>SW6020A</b>	Units: <b>mg/L</b>								
SampType: <b>MBLK</b>	Run ID: <b>ICP-MS3_130329B</b>	Analysis Date: <b>3/29/2013 3:34:00 PM</b>	Prep Date: <b>3/27/2013</b>								
<b>Analyte</b> <b>Result</b> <b>RL</b> <b>SPK value</b> <b>Ref Val</b> <b>%REC</b> <b>LowLimit</b> <b>HighLimit</b> <b>%RPD</b> <b>RPDLimit</b> <b>Qual</b>											
Chromium	<0.00200	0.00500									
Sample ID: <b>LCS-56631</b>	Batch ID: <b>56631</b>	TestNo: <b>SW6020A</b>	Units: <b>mg/L</b>								
SampType: <b>LCS</b>	Run ID: <b>ICP-MS3_130329B</b>	Analysis Date: <b>3/29/2013 3:40:00 PM</b>	Prep Date: <b>3/27/2013</b>								
<b>Analyte</b> <b>Result</b> <b>RL</b> <b>SPK value</b> <b>Ref Val</b> <b>%REC</b> <b>LowLimit</b> <b>HighLimit</b> <b>%RPD</b> <b>RPDLimit</b> <b>Qual</b>											
Chromium	0.188	0.00500	0.200	0	94.2	80	120				
Sample ID: <b>LCSD-56631</b>	Batch ID: <b>56631</b>	TestNo: <b>SW6020A</b>	Units: <b>mg/L</b>								
SampType: <b>LCSD</b>	Run ID: <b>ICP-MS3_130329B</b>	Analysis Date: <b>3/29/2013 3:46:00 PM</b>	Prep Date: <b>3/27/2013</b>								
<b>Analyte</b> <b>Result</b> <b>RL</b> <b>SPK value</b> <b>Ref Val</b> <b>%REC</b> <b>LowLimit</b> <b>HighLimit</b> <b>%RPD</b> <b>RPDLimit</b> <b>Qual</b>											
Chromium	0.192	0.00500	0.200	0	95.8	80	120	1.58	20		
Sample ID: <b>1303158-03C SD</b>	Batch ID: <b>56631</b>	TestNo: <b>SW6020A</b>	Units: <b>mg/L</b>								
SampType: <b>SD</b>	Run ID: <b>ICP-MS3_130329B</b>	Analysis Date: <b>3/29/2013 4:04:00 PM</b>	Prep Date: <b>3/27/2013</b>								
<b>Analyte</b> <b>Result</b> <b>RL</b> <b>SPK value</b> <b>Ref Val</b> <b>%REC</b> <b>LowLimit</b> <b>HighLimit</b> <b>%RPD</b> <b>RPDLimit</b> <b>Qual</b>											
Chromium	<0.0100	0.0250	0	0				0	10		
Sample ID: <b>1303158-03C PDS</b>	Batch ID: <b>56631</b>	TestNo: <b>SW6020A</b>	Units: <b>mg/L</b>								
SampType: <b>PDS</b>	Run ID: <b>ICP-MS3_130329B</b>	Analysis Date: <b>3/29/2013 4:29:00 PM</b>	Prep Date: <b>3/27/2013</b>								
<b>Analyte</b> <b>Result</b> <b>RL</b> <b>SPK value</b> <b>Ref Val</b> <b>%REC</b> <b>LowLimit</b> <b>HighLimit</b> <b>%RPD</b> <b>RPDLimit</b> <b>Qual</b>											
Chromium	0.200	0.00500	0.200	0	99.8	80	120				
Sample ID: <b>1303158-03C MS</b>	Batch ID: <b>56631</b>	TestNo: <b>SW6020A</b>	Units: <b>mg/L</b>								
SampType: <b>MS</b>	Run ID: <b>ICP-MS3_130329B</b>	Analysis Date: <b>3/29/2013 4:35:00 PM</b>	Prep Date: <b>3/27/2013</b>								
<b>Analyte</b> <b>Result</b> <b>RL</b> <b>SPK value</b> <b>Ref Val</b> <b>%REC</b> <b>LowLimit</b> <b>HighLimit</b> <b>%RPD</b> <b>RPDLimit</b> <b>Qual</b>											
Chromium	0.200	0.00500	0.200	0	99.8	80	120				
Sample ID: <b>1303158-03C MSD</b>	Batch ID: <b>56631</b>	TestNo: <b>SW6020A</b>	Units: <b>mg/L</b>								
SampType: <b>MSD</b>	Run ID: <b>ICP-MS3_130329B</b>	Analysis Date: <b>3/29/2013 4:41:00 PM</b>	Prep Date: <b>3/27/2013</b>								
<b>Analyte</b> <b>Result</b> <b>RL</b> <b>SPK value</b> <b>Ref Val</b> <b>%REC</b> <b>LowLimit</b> <b>HighLimit</b> <b>%RPD</b> <b>RPDLimit</b> <b>Qual</b>											
Chromium	0.192	0.00500	0.200	0	96.2	80	120	3.68	20		

**Qualifiers:**    B Analyte detected in the associated Method Blank  
                   J Analyte detected between MDL and RL  
                   ND Not Detected at the Method Detection Limit  
                   RL Reporting Limit  
                   J Analyte detected between SDL and RL

DF Dilution Factor  
        MDL Method Detection Limit  
        R RPD outside accepted control limits  
        S Spike Recovery outside control limits  
        N Parameter not NELAC certified

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**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1303158  
**Project:** HELSTF Diesel Spill

## ANALYTICAL QC SUMMARY REPORT

**RunID:** ICP-MS3\_130329B

Sample ID: ICV1-130329	Batch ID: R65590	TestNo: SW6020A	Units: mg/L							
SampType: ICV	Run ID: ICP-MS3_130329B	Analysis Date: 3/29/2013 12:28:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.0977	0.00500	0.100	0	97.7	90	110			
Sample ID: CCV1-130329	Batch ID: R65590	TestNo: SW6020A	Units: mg/L							
SampType: CCV	Run ID: ICP-MS3_130329B	Analysis Date: 3/29/2013 2:32:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.191	0.00500	0.200	0	95.3	90	110			
Sample ID: CCV2-130329	Batch ID: R65590	TestNo: SW6020A	Units: mg/L							
SampType: CCV	Run ID: ICP-MS3_130329B	Analysis Date: 3/29/2013 4:59:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.191	0.00500	0.200	0	95.6	90	110			

**Qualifiers:** B Analyte detected in the associated Method Blank  
J Analyte detected between MDL and RL  
ND Not Detected at the Method Detection Limit  
RL Reporting Limit  
J Analyte detected between SDL and RL

DF Dilution Factor  
MDL Method Detection Limit  
R RPD outside accepted control limits  
S Spike Recovery outside control limits  
N Parameter not NELAC certified

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**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1303158  
**Project:** HELSTF Diesel Spill

## ANALYTICAL QC SUMMARY REPORT

**RunID:** GCMS7\_130322A

The QC data in batch 56560 applies to the following samples: 1303158-01A, 1303158-02A, 1303158-03A, 1303158-04A, 1303158-05A, 1303158-06A

Sample ID: <b>LCS-56560</b>	Batch ID: <b>56560</b>	TestNo:	<b>SW8260C</b>		Units:	<b>mg/L</b>				
SampType: <b>LCS</b>	Run ID: <b>GCMS7_130322A</b>	Analysis Date: <b>3/22/2013 11:13:00 AM</b>				Prep Date:	<b>3/22/2013</b>			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0231	0.00100	0.0232	0	99.4	80	130			
1,1,1-Trichloroethane	0.0226	0.00100	0.0232	0	97.5	65	130			
1,1,2,2-Tetrachloroethane	0.0242	0.00100	0.0232	0	104	65	130			
1,1,2-Trichloroethane	0.0222	0.00100	0.0232	0	95.6	75	125			
1,1-Dichloroethane	0.0224	0.00100	0.0232	0	96.4	70	135			
1,1-Dichloroethene	0.0219	0.00100	0.0232	0	94.4	70	130			
1,1-Dichloropropene	0.0225	0.00100	0.0232	0	97.1	75	130			
1,2,3-Trichlorobenzene	0.0247	0.00500	0.0232	0	106	55	140			
1,2,3-Trichloropropane	0.0234	0.00100	0.0232	0	101	75	125			
1,2,4-Trichlorobenzene	0.0241	0.00500	0.0232	0	104	65	135			
1,2,4-Trimethylbenzene	0.0242	0.00500	0.0232	0	104	75	130			
1,2-Dibromo-3-chloropropane	0.0249	0.0100	0.0232	0	107	50	130			
1,2-Dibromoethane	0.0240	0.00100	0.0232	0	104	80	120			
1,2-Dichlorobenzene	0.0239	0.00100	0.0232	0	103	70	120			
1,2-Dichloroethane	0.0227	0.00100	0.0232	0	97.8	70	130			
1,2-Dichloropropane	0.0221	0.00100	0.0232	0	95.1	75	125			
1,3,5-Trimethylbenzene	0.0238	0.00500	0.0232	0	103	75	130			
1,3-Dichlorobenzene	0.0237	0.00100	0.0232	0	102	75	125			
1,3-Dichloropropane	0.0237	0.00100	0.0232	0	102	75	125			
1,4-Dichloro-2-butene	0.0247	0.00200	0.0232	0	106	50	150			
1,4-Dichlorobenzene	0.0237	0.00100	0.0232	0	102	75	125			
2,2-Dichloropropane	0.0214	0.00100	0.0232	0	92.4	70	135			
2-Butanone	0.110	0.0150	0.116	0	94.8	30	150			
2-Chloroethylvinylether	0.0220	0.0150	0.0232	0	94.7	50	150			
2-Chlorotoluene	0.0238	0.00100	0.0232	0	102	75	125			
2-Hexanone	0.118	0.0150	0.116	0	101	55	130			
4-Chlorotoluene	0.0239	0.00100	0.0232	0	103	75	130			
4-Methyl-2-pentanone	0.119	0.0150	0.116	0	102	60	135			
Acetone	0.115	0.0150	0.116	0	99.4	40	140			
Acrylonitrile	0.0441	0.00300	0.0464	0	95.1	50	150			
Benzene	0.0224	0.00100	0.0232	0	96.6	80	120			
Bromobenzene	0.0237	0.00100	0.0232	0	102	75	125			
Bromochloromethane	0.0207	0.00100	0.0232	0	89.1	65	130			
Bromodichloromethane	0.0230	0.00100	0.0232	0	99.0	75	120			
Bromoform	0.0228	0.00100	0.0232	0	98.4	70	130			
Bromomethane	0.0260	0.00100	0.0232	0	112	30	145			
Carbon disulfide	0.0220	0.0150	0.0232	0	94.7	35	160			
Carbon tetrachloride	0.0226	0.00100	0.0232	0	97.2	65	140			
Chlorobenzene	0.0232	0.00100	0.0232	0	100	80	120			
Chloroethane	0.0219	0.00100	0.0232	0	94.4	60	135			

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

DF Dilution Factor  
MDL Method Detection Limit  
R RPD outside accepted control limits  
S Spike Recovery outside control limits  
N Parameter not NELAC certified

**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1303158  
**Project:** HELSTF Diesel Spill

## ANALYTICAL QC SUMMARY REPORT

**RunID:** GCMS7\_130322A

Sample ID: LCS-56560	Batch ID: 56560	TestNo: SW8260C		Units:	mg/L					
SampType: LCS	Run ID: GCMS7_130322A	Analysis Date: 3/22/2013 11:13:00 AM					Prep Date: 3/22/2013			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloroform	0.0223	0.00100	0.0232	0	96.1	65	135			
Chloromethane	0.0202	0.00100	0.0232	0	86.9	40	125			
cis-1,2-Dichloroethene	0.0229	0.00100	0.0232	0	98.5	70	125			
cis-1,3-Dichloropropene	0.0228	0.00100	0.0232	0	98.2	70	130			
Dibromochloromethane	0.0242	0.00100	0.0232	0	104	60	135			
Dibromomethane	0.0228	0.00100	0.0232	0	98.1	75	125			
Dichlorodifluoromethane	0.0203	0.00100	0.0232	0	87.4	30	155			
Ethylbenzene	0.0232	0.00100	0.0232	0	100	75	125			
Iodomethane	0.0206	0.0150	0.0232	0	88.7	50	150			
Isopropylbenzene	0.0234	0.00100	0.0232	0	101	75	125			
m,p-Xylene	0.0460	0.00200	0.0464	0	99.1	75	130			
Methyl tert-butyl ether	0.0227	0.00100	0.0232	0	97.8	65	125			
Methylene chloride	0.0226	0.00250	0.0232	0	97.5	55	140			
n-Butylbenzene	0.0248	0.00100	0.0232	0	107	70	135			
n-Propylbenzene	0.0241	0.00100	0.0232	0	104	70	130			
o-Xylene	0.0231	0.00100	0.0232	0	99.4	80	120			
p-Isopropyltoluene	0.0240	0.00100	0.0232	0	103	75	130			
sec-Butylbenzene	0.0242	0.00100	0.0232	0	104	70	125			
Styrene	0.0231	0.00100	0.0232	0	99.7	65	135			
tert-Butylbenzene	0.0237	0.00100	0.0232	0	102	70	130			
Tetrachloroethene	0.0235	0.00200	0.0232	0	101	45	150			
Toluene	0.0220	0.00200	0.0232	0	94.6	75	120			
trans-1,2-Dichloroethene	0.0223	0.00100	0.0232	0	96.1	60	140			
trans-1,3-Dichloropropene	0.0227	0.00100	0.0232	0	98.0	55	140			
Trichloroethene	0.0222	0.00200	0.0232	0	95.7	70	125			
Trichlorofluoromethane	0.0224	0.00100	0.0232	0	96.6	60	145			
Vinyl chloride	0.0219	0.00100	0.0232	0	94.5	50	145			
Surr: 1,2-Dichloroethane-d4	208		200.0		104	70	120			
Surr: 4-Bromofluorobenzene	207		200.0		103	75	120			
Surr: Dibromofluoromethane	201		200.0		100	85	115			
Surr: Toluene-d8	211		200.0		106	85	120			

Sample ID: MB-56560	Batch ID: 56560	TestNo: SW8260C		Units:	mg/L					
SampType: MBLK	Run ID: GCMS7_130322A	Analysis Date: 3/22/2013 12:01:00 PM					Prep Date: 3/22/2013			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	<0.000200	0.00100								
1,1,1-Trichloroethane	<0.000200	0.00100								
1,1,2,2-Tetrachloroethane	<0.000200	0.00100								
1,1,2-Trichloroethane	<0.000200	0.00100								
1,1-Dichloroethane	<0.000200	0.00100								

**Qualifiers:** B Analyte detected in the associated Method Blank  
J Analyte detected between MDL and RL  
ND Not Detected at the Method Detection Limit  
RL Reporting Limit  
J Analyte detected between SDL and RL

DF Dilution Factor  
MDL Method Detection Limit  
R RPD outside accepted control limits  
S Spike Recovery outside control limits  
N Parameter not NELAC certified

**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1303158  
**Project:** HELSTF Diesel Spill

## ANALYTICAL QC SUMMARY REPORT

**RunID:** GCMS7\_130322A

Sample ID: MB-56560	Batch ID: 56560	TestNo: SW8260C	Units: mg/L							
SampType: MBLK	Run ID: GCMS7_130322A	Analysis Date: 3/22/2013 12:01:00 PM	Prep Date: 3/22/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	<0.000200	0.00100								
1,1-Dichloropropene	<0.000200	0.00100								
1,2,3-Trichlorobenzene	<0.00150	0.00500								
1,2,3-Trichloropropane	<0.000300	0.00100								
1,2,4-Trichlorobenzene	<0.00150	0.00500								
1,2,4-Trimethylbenzene	<0.00150	0.00500								
1,2-Dibromo-3-chloropropane	<0.00300	0.0100								
1,2-Dibromoethane	<0.000200	0.00100								
1,2-Dichlorobenzene	<0.000300	0.00100								
1,2-Dichloroethane	<0.000300	0.00100								
1,2-Dichloropropane	<0.000200	0.00100								
1,3,5-Trimethylbenzene	<0.00150	0.00500								
1,3-Dichlorobenzene	<0.000300	0.00100								
1,3-Dichloropropane	<0.000200	0.00100								
1,4-Dichloro-2-butene	<0.00200	0.00200								
1,4-Dichlorobenzene	<0.000300	0.00100								
2,2-Dichloropropane	<0.000200	0.00100								
2-Butanone	<0.00500	0.0150								
2-Chloroethylvinylether	<0.00500	0.0150								
2-Chlorotoluene	<0.000300	0.00100								
2-Hexanone	<0.00500	0.0150								
4-Chlorotoluene	<0.000300	0.00100								
4-Methyl-2-pentanone	<0.00500	0.0150								
Acetone	<0.00500	0.0150								
Acrylonitrile	<0.00100	0.00300								
Benzene	<0.000200	0.00100								
Bromobenzene	<0.000200	0.00100								
Bromochloromethane	<0.000200	0.00100								
Bromodichloromethane	<0.000200	0.00100								
Bromoform	<0.000200	0.00100								
Bromomethane	<0.000300	0.00100								
Carbon disulfide	<0.00500	0.0150								
Carbon tetrachloride	<0.000200	0.00100								
Chlorobenzene	<0.000200	0.00100								
Chloroethane	<0.000300	0.00100								
Chloroform	<0.000300	0.00100								
Chloromethane	<0.000300	0.00100								
cis-1,2-Dichloroethene	<0.000200	0.00100								
cis-1,3-Dichloropropene	<0.000200	0.00100								
Dibromochloromethane	<0.000200	0.00100								
Dibromomethane	<0.000200	0.00100								

**Qualifiers:** B Analyte detected in the associated Method Blank  
J Analyte detected between MDL and RL  
ND Not Detected at the Method Detection Limit  
RL Reporting Limit  
J Analyte detected between SDL and RL

DF Dilution Factor  
MDL Method Detection Limit  
R RPD outside accepted control limits  
S Spike Recovery outside control limits  
N Parameter not NELAC certified

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**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1303158  
**Project:** HELSTF Diesel Spill

## ANALYTICAL QC SUMMARY REPORT

**RunID:** GCMS7\_130322A

Sample ID: MB-56560	Batch ID: 56560	TestNo: SW8260C	Units: mg/L							
SampType: MBLK	Run ID: GCMS7_130322A	Analysis Date: 3/22/2013 12:01:00 PM Prep Date: 3/22/2013								
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	<0.000200	0.00100								
Ethylbenzene	<0.000300	0.00100								
Iodomethane	<0.00500	0.0150								
Isopropylbenzene	<0.000200	0.00100								
m,p-Xylene	<0.000600	0.00200								
Methyl tert-butyl ether	<0.000300	0.00100								
Methylene chloride	<0.00250	0.00250								
n-Butylbenzene	<0.000300	0.00100								
n-Propylbenzene	<0.000300	0.00100								
o-Xylene	<0.000300	0.00100								
p-Isopropyltoluene	<0.000300	0.00100								
sec-Butylbenzene	<0.000300	0.00100								
Styrene	<0.000200	0.00100								
tert-Butylbenzene	<0.000300	0.00100								
Tetrachloroethene	<0.000600	0.00200								
Toluene	<0.000600	0.00200								
trans-1,2-Dichloroethene	<0.000200	0.00100								
trans-1,3-Dichloropropene	<0.000200	0.00100								
Trichloroethene	<0.000600	0.00200								
Trichlorofluoromethane	<0.000200	0.00100								
Vinyl chloride	<0.000100	0.00100								
Surr: 1,2-Dichloroethane-d4	215		200.0		107	70	120			
Surr: 4-Bromofluorobenzene	215		200.0		108	75	120			
Surr: Dibromofluoromethane	216		200.0		108	85	115			
Surr: Toluene-d8	210		200.0		105	85	120			

Sample ID: 1303141-01AMS	Batch ID: 56560	TestNo: SW8260C	Units: mg/L							
SampType: MS	Run ID: GCMS7_130322A	Analysis Date: 3/22/2013 8:30:00 PM Prep Date: 3/22/2013								
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0218	0.00100	0.0232	0	93.8	80	130			
1,1,1-Trichloroethane	0.0218	0.00100	0.0232	0	93.8	65	130			
1,1,2,2-Tetrachloroethane	0.0264	0.00100	0.0232	0	114	65	130			
1,1,2-Trichloroethane	0.0216	0.00100	0.0232	0	92.9	75	125			
1,1-Dichloroethane	0.0222	0.00100	0.0232	0	95.7	70	135			
1,1-Dichloroethene	0.0212	0.00100	0.0232	0	91.3	70	130			
1,1-Dichloropropene	0.0216	0.00100	0.0232	0	93.2	75	130			
1,2,3-Trichlorobenzene	0.0225	0.00500	0.0232	0	96.9	55	140			
1,2,3-Trichloropropane	0.0259	0.00100	0.0232	0	112	75	125			
1,2,4-Trichlorobenzene	0.0226	0.00500	0.0232	0	97.5	65	135			
1,2,4-Trimethylbenzene	0.0253	0.00500	0.0232	0	109	75	130			

**Qualifiers:** B Analyte detected in the associated Method Blank  
 J Analyte detected between MDL and RL  
 ND Not Detected at the Method Detection Limit  
 RL Reporting Limit  
 J Analyte detected between SDL and RL

DF Dilution Factor  
 MDL Method Detection Limit  
 R RPD outside accepted control limits  
 S Spike Recovery outside control limits  
 N Parameter not NELAC certified

**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1303158  
**Project:** HELSTF Diesel Spill

## ANALYTICAL QC SUMMARY REPORT

**RunID:** GCMS7\_130322A

Sample ID: 1303141-01AMS	Batch ID: 56560	TestNo: SW8260C	Units: mg/L							
SampType: MS	Run ID: GCMS7_130322A	Analysis Date: 3/22/2013 8:30:00 PM	Prep Date: 3/22/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane	0.0245	0.0100	0.0232	0	106	50	130			
1,2-Dibromoethane	0.0239	0.00100	0.0232	0	103	80	120			
1,2-Dichlorobenzene	0.0247	0.00100	0.0232	0	106	70	120			
1,2-Dichloroethane	0.0223	0.00100	0.0232	0	96.2	70	130			
1,2-Dichloropropane	0.0215	0.00100	0.0232	0	92.7	75	125			
1,3,5-Trimethylbenzene	0.0253	0.00500	0.0232	0	109	75	130			
1,3-Dichlorobenzene	0.0243	0.00100	0.0232	0	105	75	125			
1,3-Dichloropropane	0.0240	0.00100	0.0232	0	103	75	125			
1,4-Dichloro-2-butene	0.0248	0.00200	0.0232	0	107	50	150			
1,4-Dichlorobenzene	0.0244	0.00100	0.0232	0	105	75	125			
2,2-Dichloropropane	0.0208	0.00100	0.0232	0	89.7	70	135			
2-Butanone	0.107	0.0150	0.116	0	92.4	30	150			
2-Chloroethylvinylether	<0.00500	0.0150	0.0232	0	0	50	150			S
2-Chlorotoluene	0.0252	0.00100	0.0232	0	109	75	125			
2-Hexanone	0.126	0.0150	0.116	0	108	55	130			
4-Chlorotoluene	0.0251	0.00100	0.0232	0	108	75	130			
4-Methyl-2-pentanone	0.127	0.0150	0.116	0	109	60	135			
Acetone	0.127	0.0150	0.116	0.0121	99.2	40	140			
Acrylonitrile	0.0440	0.00300	0.0464	0	94.7	50	150			
Benzene	0.0217	0.00100	0.0232	0	93.4	80	120			
Bromobenzene	0.0246	0.00100	0.0232	0	106	75	125			
Bromochloromethane	0.0224	0.00100	0.0232	0	96.8	65	130			
Bromodichloromethane	0.0214	0.00100	0.0232	0.000300	91.0	75	120			
Bromoform	0.0199	0.00100	0.0232	0	85.8	70	130			
Bromomethane	0.00742	0.00100	0.0232	0	32.0	30	145			
Carbon disulfide	0.0214	0.0150	0.0232	0	92.0	35	160			
Carbon tetrachloride	0.0199	0.00100	0.0232	0	85.9	65	140			
Chlorobenzene	0.0233	0.00100	0.0232	0	101	80	120			
Chloroethane	0.0230	0.00100	0.0232	0	99.2	60	135			
Chloroform	0.0275	0.00100	0.0232	0.00610	92.3	65	135			
Chloromethane	0.0191	0.00100	0.0232	0	82.5	40	125			
cis-1,2-Dichloroethene	0.0220	0.00100	0.0232	0	94.9	70	125			
cis-1,3-Dichloropropene	0.0203	0.00100	0.0232	0	87.4	70	130			
Dibromochloromethane	0.0221	0.00100	0.0232	0	95.2	60	135			
Dibromomethane	0.0220	0.00100	0.0232	0	94.7	75	125			
Dichlorodifluoromethane	0.0199	0.00100	0.0232	0	85.6	30	155			
Ethylbenzene	0.0233	0.00100	0.0232	0	100	75	125			
Iodomethane	0.00594	0.0150	0.0232	0	25.6	50	150			S
Isopropylbenzene	0.0235	0.00100	0.0232	0	101	75	125			
m,p-Xylene	0.0463	0.00200	0.0464	0	99.8	75	130			
Methyl tert-butyl ether	0.0213	0.00100	0.0232	0	91.9	65	125			

**Qualifiers:** B Analyte detected in the associated Method Blank  
J Analyte detected between MDL and RL  
ND Not Detected at the Method Detection Limit  
RL Reporting Limit  
J Analyte detected between SDL and RL

DF Dilution Factor  
MDL Method Detection Limit  
R RPD outside accepted control limits  
S Spike Recovery outside control limits  
N Parameter not NELAC certified

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**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1303158  
**Project:** HELSTF Diesel Spill

## ANALYTICAL QC SUMMARY REPORT

**RunID:** GCMS7\_130322A

Sample ID: 1303141-01AMS	Batch ID: 56560	TestNo: SW8260C			Units:	mg/L				
SampType: MS	Run ID: GCMS7_130322A	Analysis Date: 3/22/2013 8:30:00 PM			Prep Date:	3/22/2013				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methylene chloride	0.0224	0.00250	0.0232	0	96.6	55	140			
n-Butylbenzene	0.0251	0.00100	0.0232	0	108	70	135			
n-Propylbenzene	0.0253	0.00100	0.0232	0	109	70	130			
o-Xylene	0.0235	0.00100	0.0232	0	101	80	120			
p-Isopropyltoluene	0.0245	0.00100	0.0232	0	106	75	130			
sec-Butylbenzene	0.0251	0.00100	0.0232	0	108	70	125			
Styrene	0.0199	0.00100	0.0232	0	85.6	65	135			
tert-Butylbenzene	0.0249	0.00100	0.0232	0	107	70	130			
Tetrachloroethene	0.0225	0.00200	0.0232	0	97.2	45	150			
Toluene	0.0212	0.00200	0.0232	0	91.5	75	120			
trans-1,2-Dichloroethene	0.0221	0.00100	0.0232	0	95.2	60	140			
trans-1,3-Dichloropropene	0.0201	0.00100	0.0232	0	86.6	55	140			
Trichloroethene	0.0210	0.00200	0.0232	0	90.6	70	125			
Trichlorofluoromethane	0.0226	0.00100	0.0232	0	97.3	60	145			
Vinyl chloride	0.0204	0.00100	0.0232	0	87.7	50	145			
Surr: 1,2-Dichloroethane-d4	214		200.0		107	70	120			
Surr: 4-Bromofluorobenzene	220		200.0		110	75	120			
Surr: Dibromofluoromethane	210		200.0		105	85	115			
Surr: Toluene-d8	224		200.0		112	85	120			

Sample ID: 1303141-01AMSD	Batch ID: 56560	TestNo: SW8260C			Units:	mg/L				
SampType: MSD	Run ID: GCMS7_130322A	Analysis Date: 3/22/2013 8:54:00 PM			Prep Date:	3/22/2013				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0222	0.00100	0.0232	0	95.5	80	130	1.73	30	
1,1,1-Trichloroethane	0.0222	0.00100	0.0232	0	95.9	65	130	2.18	30	
1,1,2,2-Tetrachloroethane	0.0270	0.00100	0.0232	0	117	65	130	2.51	30	
1,1,2-Trichloroethane	0.0216	0.00100	0.0232	0	93.3	75	125	0.463	30	
1,1-Dichloroethane	0.0230	0.00100	0.0232	0	99.1	70	135	3.50	30	
1,1-Dichloroethene	0.0220	0.00100	0.0232	0	94.7	70	130	3.66	30	
1,1-Dichloropropene	0.0217	0.00100	0.0232	0	93.5	75	130	0.323	30	
1,2,3-Trichlorobenzene	0.0249	0.00500	0.0232	0	107	55	140	10.3	30	
1,2,3-Trichloropropane	0.0265	0.00100	0.0232	0	114	75	125	2.52	30	
1,2,4-Trichlorobenzene	0.0244	0.00500	0.0232	0	105	65	135	7.53	30	
1,2,4-Trimethylbenzene	0.0265	0.00500	0.0232	0	114	75	130	4.40	30	
1,2-Dibromo-3-chloropropane	0.0262	0.0100	0.0232	0	113	50	130	6.47	30	
1,2-Dibromoethane	0.0244	0.00100	0.0232	0	105	80	120	2.07	30	
1,2-Dichlorobenzene	0.0256	0.00100	0.0232	0	110	70	120	3.74	30	
1,2-Dichloroethane	0.0226	0.00100	0.0232	0	97.6	70	130	1.47	30	
1,2-Dichloropropane	0.0219	0.00100	0.0232	0	94.4	75	125	1.84	30	
1,3,5-Trimethylbenzene	0.0263	0.00500	0.0232	0	114	75	130	4.03	30	

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

DF Dilution Factor  
MDL Method Detection Limit  
R RPD outside accepted control limits  
S Spike Recovery outside control limits  
N Parameter not NELAC certified

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**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1303158  
**Project:** HELSTF Diesel Spill

## ANALYTICAL QC SUMMARY REPORT

**RunID:** GCMS7\_130322A

Sample ID: 1303141-01AMSD	Batch ID: 56560	TestNo: SW8260C		Units: mg/L	
SampType: MSD	Run ID: GCMS7_130322A	Analysis Date: 3/22/2013 8:54:00 PM			Prep Date: 3/22/2013
Analyte	Result	RL	SPK value	Ref Val	%REC LowLimit HighLimit %RPD RPDLimit Qual
1,3-Dichlorobenzene	0.0254	0.00100	0.0232	0	109 75 125 4.27 30
1,3-Dichloropropane	0.0244	0.00100	0.0232	0	105 75 125 1.49 30
1,4-Dichloro-2-butene	0.0252	0.00200	0.0232	0	109 50 150 1.88 30
1,4-Dichlorobenzene	0.0254	0.00100	0.0232	0	110 75 125 4.30 30
2,2-Dichloropropane	0.0198	0.00100	0.0232	0	85.4 70 135 4.88 30
2-Butanone	0.106	0.0150	0.116	0	91.5 30 150 0.975 30
2-Chloroethylvinylether	<0.00500	0.0150	0.0232	0	0 50 150 0 30 S
2-Chlorotoluene	0.0262	0.00100	0.0232	0	113 75 125 3.96 30
2-Hexanone	0.127	0.0150	0.116	0	109 55 130 0.997 30
4-Chlorotoluene	0.0262	0.00100	0.0232	0	113 75 130 4.52 30
4-Methyl-2-pentanone	0.128	0.0150	0.116	0	110 60 135 0.558 30
Acetone	0.125	0.0150	0.116	0.0121	97.4 40 140 1.74 30
Acrylonitrile	0.0457	0.00300	0.0464	0	98.5 50 150 3.90 30
Benzene	0.0223	0.00100	0.0232	0	96.2 80 120 3.00 30
Bromobenzene	0.0254	0.00100	0.0232	0	110 75 125 3.28 30
Bromochloromethane	0.0203	0.00100	0.0232	0	87.5 65 130 10.1 30
Bromodichloromethane	0.0221	0.00100	0.0232	0.000300	94.1 75 120 3.22 30
Bromoform	0.0207	0.00100	0.0232	0	89.4 70 130 4.09 30
Bromomethane	0.0112	0.00100	0.0232	0	48.4 30 145 40.8 30 R
Carbon disulfide	0.0216	0.0150	0.0232	0	93.1 35 160 1.16 30
Carbon tetrachloride	0.0206	0.00100	0.0232	0	88.8 65 140 3.30 30
Chlorobenzene	0.0241	0.00100	0.0232	0	104 80 120 3.16 30
Chloroethane	0.0233	0.00100	0.0232	0	100 60 135 1.30 30
Chloroform	0.0281	0.00100	0.0232	0.00610	94.7 65 135 2.05 30
Chloromethane	0.0202	0.00100	0.0232	0	87.1 40 125 5.49 30
cis-1,2-Dichloroethene	0.0232	0.00100	0.0232	0	100 70 125 5.26 30
cis-1,3-Dichloropropene	0.0202	0.00100	0.0232	0	87.0 70 130 0.395 30
Dibromochloromethane	0.0228	0.00100	0.0232	0	98.4 60 135 3.29 30
Dibromomethane	0.0222	0.00100	0.0232	0	95.8 75 125 1.18 30
Dichlorodifluoromethane	0.0206	0.00100	0.0232	0	88.9 30 155 3.80 30
Ethylbenzene	0.0241	0.00100	0.0232	0	104 75 125 3.54 30
Iodomethane	0.00917	0.0150	0.0232	0	39.5 50 150 42.8 30 SR
Isopropylbenzene	0.0245	0.00100	0.0232	0	106 75 125 4.17 30
m,p-Xylene	0.0481	0.00200	0.0464	0	104 75 130 3.79 30
Methyl tert-butyl ether	0.0215	0.00100	0.0232	0	92.6 65 125 0.701 30
Methylene chloride	0.0230	0.00250	0.0232	0	98.9 55 140 2.38 30
n-Butylbenzene	0.0266	0.00100	0.0232	0	115 70 135 5.99 30
n-Propylbenzene	0.0265	0.00100	0.0232	0	114 70 130 4.71 30
o-Xylene	0.0244	0.00100	0.0232	0	105 80 120 3.84 30
p-Isopropyltoluene	0.0259	0.00100	0.0232	0	112 75 130 5.56 30
sec-Butylbenzene	0.0263	0.00100	0.0232	0	113 70 125 4.48 30

**Qualifiers:** B Analyte detected in the associated Method Blank  
J Analyte detected between MDL and RL  
ND Not Detected at the Method Detection Limit  
RL Reporting Limit  
J Analyte detected between SDL and RL

DF Dilution Factor  
MDL Method Detection Limit  
R RPD outside accepted control limits  
S Spike Recovery outside control limits  
N Parameter not NELAC certified

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**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1303158  
**Project:** HELSTF Diesel Spill

## ANALYTICAL QC SUMMARY REPORT

**RunID:** GCMS7\_130322A

Sample ID:	1303141-01AMSD	Batch ID:	56560	TestNo:	SW8260C		Units:	mg/L			
SampType:	MSD	Run ID:	GCMS7_130322A	Analysis Date: 3/22/2013 8:54:00 PM			Prep Date:	3/22/2013			
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Styrene		0.0205	0.00100	0.0232	0	88.3	65	135	3.07	30	
tert-Butylbenzene		0.0260	0.00100	0.0232	0	112	70	130	4.28	30	
Tetrachloroethene		0.0231	0.00200	0.0232	0	99.4	45	150	2.32	30	
Toluene		0.0216	0.00200	0.0232	0	93.3	75	120	2.01	30	
trans-1,2-Dichloroethene		0.0218	0.00100	0.0232	0	93.8	60	140	1.51	30	
trans-1,3-Dichloropropene		0.0206	0.00100	0.0232	0	88.6	55	140	2.31	30	
Trichloroethene		0.0213	0.00200	0.0232	0	91.9	70	125	1.46	30	
Trichlorofluoromethane		0.0231	0.00100	0.0232	0	99.4	60	145	2.15	30	
Vinyl chloride		0.0209	0.00100	0.0232	0	90.2	50	145	2.76	30	
Surr: 1,2-Dichloroethane-d4		216		200.0		108	70	120	0	0	
Surr: 4-Bromofluorobenzene		220		200.0		110	75	120	0	0	
Surr: Dibromofluoromethane		212		200.0		106	85	115	0	0	
Surr: Toluene-d8		224		200.0		112	85	120	0	0	

**Qualifiers:** B Analyte detected in the associated Method Blank  
J Analyte detected between MDL and RL  
ND Not Detected at the Method Detection Limit  
RL Reporting Limit  
J Analyte detected between SDL and RL

DF Dilution Factor  
MDL Method Detection Limit  
R RPD outside accepted control limits  
S Spike Recovery outside control limits  
N Parameter not NELAC certified

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**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1303158  
**Project:** HELSTF Diesel Spill

## ANALYTICAL QC SUMMARY REPORT

**RunID:** GCMS7\_130322A

Sample ID: ICV-130322	Batch ID: R65454	TestNo: SW8260C	Units: mg/L							
SampType: ICV	Run ID: GCMS7_130322A	Analysis Date: 3/22/2013 10:48:00 AM Prep Date:								
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0492	0.00100	0.0464	0	106	80	120			
1,1,1-Trichloroethane	0.0456	0.00100	0.0464	0	98.2	80	120			
1,1,2,2-Tetrachloroethane	0.0515	0.00100	0.0464	0	111	80	120			
1,1,2-Trichloroethane	0.0466	0.00100	0.0464	0	100	80	120			
1,1-Dichloroethane	0.0438	0.00100	0.0464	0	94.5	80	120			
1,1-Dichloroethene	0.0444	0.00100	0.0464	0	95.8	80	120			
1,1-Dichloropropene	0.0462	0.00100	0.0464	0	99.6	80	120			
1,2,3-Trichlorobenzene	0.0487	0.00500	0.0464	0	105	80	120			
1,2,3-Trichloropropane	0.0510	0.00100	0.0464	0	110	80	120			
1,2,4-Trichlorobenzene	0.0487	0.00500	0.0464	0	105	80	120			
1,2,4-Trimethylbenzene	0.0498	0.00500	0.0464	0	107	80	120			
1,2-Dibromo-3-chloropropane	0.0505	0.0100	0.0464	0	109	80	120			
1,2-Dibromoethane	0.0489	0.00100	0.0464	0	105	80	120			
1,2-Dichlorobenzene	0.0494	0.00100	0.0464	0	107	80	120			
1,2-Dichloroethane	0.0452	0.00100	0.0464	0	97.3	80	120			
1,2-Dichloropropane	0.0448	0.00100	0.0464	0	96.5	80	120			
1,3,5-Trimethylbenzene	0.0498	0.00500	0.0464	0	107	80	120			
1,3-Dichlorobenzene	0.0491	0.00100	0.0464	0	106	80	120			
1,3-Dichloropropane	0.0479	0.00100	0.0464	0	103	80	120			
1,4-Dichloro-2-butene	0.0526	0.00200	0.0464	0	113	80	120			
1,4-Dichlorobenzene	0.0488	0.00100	0.0464	0	105	80	120			
2,2-Dichloropropane	0.0467	0.00100	0.0464	0	101	80	120			
2-Butanone	0.224	0.0150	0.232	0	96.5	80	120			
2-Chloroethylvinylether	0.0463	0.0150	0.0464	0	99.7	80	120			
2-Chlorotoluene	0.0490	0.00100	0.0464	0	106	80	120			
2-Hexanone	0.245	0.0150	0.232	0	106	80	120			
4-Chlorotoluene	0.0492	0.00100	0.0464	0	106	80	120			
4-Methyl-2-pentanone	0.248	0.0150	0.232	0	107	80	120			
Acetone	0.230	0.0150	0.232	0	99.1	80	120			
Acrylonitrile	0.0847	0.00300	0.0928	0	91.3	60	140			
Benzene	0.0454	0.00100	0.0464	0	97.9	80	120			
Bromobenzene	0.0491	0.00100	0.0464	0	106	80	120			
Bromochloromethane	0.0472	0.00100	0.0464	0	102	80	120			
Bromodichloromethane	0.0470	0.00100	0.0464	0	101	80	120			
Bromoform	0.0476	0.00100	0.0464	0	103	80	120			
Bromomethane	0.0438	0.00100	0.0464	0	94.3	80	120			
Carbon disulfide	0.0440	0.0150	0.0464	0	94.8	80	120			
Carbon tetrachloride	0.0471	0.00100	0.0464	0	102	80	120			
Chlorobenzene	0.0473	0.00100	0.0464	0	102	80	120			
Chloroethane	0.0378	0.00100	0.0464	0	81.6	80	120			
Chloroform	0.0440	0.00100	0.0464	0	94.9	80	120			

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

DF Dilution Factor  
MDL Method Detection Limit  
R RPD outside accepted control limits  
S Spike Recovery outside control limits  
N Parameter not NELAC certified

**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1303158  
**Project:** HELSTF Diesel Spill

## ANALYTICAL QC SUMMARY REPORT

**RunID:** GCMS7\_130322A

Sample ID: ICV-130322	Batch ID: R65454	TestNo: SW8260C	Units: mg/L							
SampType: ICV	Run ID: GCMS7_130322A	Analysis Date: 3/22/2013 10:48:00 AM Prep Date:								
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloromethane	0.0404	0.00100	0.0464	0	87.1	80	120			
cis-1,2-Dichloroethene	0.0447	0.00100	0.0464	0	96.3	80	120			
cis-1,3-Dichloropropene	0.0471	0.00100	0.0464	0	101	80	120			
Dibromochloromethane	0.0514	0.00100	0.0464	0	111	80	120			
Dibromomethane	0.0453	0.00100	0.0464	0	97.6	80	120			
Dichlorodifluoromethane	0.0402	0.00100	0.0464	0	86.7	80	120			
Ethylbenzene	0.0476	0.00100	0.0464	0	103	80	120			
Iodomethane	0.0432	0.0150	0.0464	0	93.1	80	120			
Isopropylbenzene	0.0477	0.00100	0.0464	0	103	80	120			
m,p-Xylene	0.0948	0.00200	0.0928	0	102	80	120			
Methyl tert-butyl ether	0.0462	0.00100	0.0464	0	99.6	80	120			
Methylene chloride	0.0444	0.00250	0.0464	0	95.6	80	120			
n-Butylbenzene	0.0518	0.00100	0.0464	0	112	80	120			
n-Propylbenzene	0.0497	0.00100	0.0464	0	107	80	120			
o-Xylene	0.0473	0.00100	0.0464	0	102	80	120			
p-Isopropyltoluene	0.0500	0.00100	0.0464	0	108	80	120			
sec-Butylbenzene	0.0497	0.00100	0.0464	0	107	80	120			
Styrene	0.0475	0.00100	0.0464	0	102	80	120			
tert-Butylbenzene	0.0491	0.00100	0.0464	0	106	80	120			
Tetrachloroethene	0.0481	0.00200	0.0464	0	104	80	120			
Toluene	0.0452	0.00200	0.0464	0	97.4	80	120			
trans-1,2-Dichloroethene	0.0448	0.00100	0.0464	0	96.6	80	120			
trans-1,3-Dichloropropene	0.0483	0.00100	0.0464	0	104	80	120			
Trichloroethene	0.0458	0.00200	0.0464	0	98.6	80	120			
Trichlorofluoromethane	0.0449	0.00100	0.0464	0	96.7	80	120			
Vinyl chloride	0.0427	0.00100	0.0464	0	92.1	80	120			
Surr: 1,2-Dichloroethane-d4	196		200.0		98.1	70	120			
Surr: 4-Bromofluorobenzene	208		200.0		104	75	120			
Surr: Dibromofluoromethane	198		200.0		98.9	85	115			
Surr: Toluene-d8	208		200.0		104	85	120			

**Qualifiers:** B Analyte detected in the associated Method Blank  
J Analyte detected between MDL and RL  
ND Not Detected at the Method Detection Limit  
RL Reporting Limit  
J Analyte detected between SDL and RL

DF Dilution Factor  
MDL Method Detection Limit  
R RPD outside accepted control limits  
S Spike Recovery outside control limits  
N Parameter not NELAC certified

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**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1303158  
**Project:** HELSTF Diesel Spill

## ANALYTICAL QC SUMMARY REPORT

**RunID:** TITRATOR\_130319A

The QC data in batch 56504 applies to the following samples: 1303158-01D, 1303158-02D, 1303158-03D, 1303158-05D

Sample ID: 1303158-01D DUP	Batch ID: 56504	TestNo: M4500-H+ B	Units: pH units
SampType: DUP	Run ID: TITRATOR_130319A	Analysis Date: 3/19/2013 9:39:00 AM	Prep Date: 3/19/2013
Analyte	Result	RL	SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
pH	7.33	0	0 7.350 0.272 5

**Qualifiers:** B Analyte detected in the associated Method Blank  
J Analyte detected between MDL and RL  
ND Not Detected at the Method Detection Limit  
RL Reporting Limit  
J Analyte detected between SDL and RL

DF Dilution Factor  
MDL Method Detection Limit  
R RPD outside accepted control limits  
S Spike Recovery outside control limits  
N Parameter not NELAC certified

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**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1303158  
**Project:** HELSTF Diesel Spill

## ANALYTICAL QC SUMMARY REPORT

**RunID:** TITRATOR\_130319A

Sample ID: ICV-130319	Batch ID: R65391	TestNo:	M4500-H+ B	Units:	pH units					
SampType: ICV	Run ID: TITRATOR_130319A	Analysis Date: 3/19/2013 9:36:00 AM		Prep Date:	3/19/2013					
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	9.98	0	10.00	0	99.8	99	101			
Sample ID: CCV-130319	Batch ID: R65391	TestNo:	M4500-H+ B	Units:	pH units					
SampType: CCV	Run ID: TITRATOR_130319A	Analysis Date: 3/19/2013 9:47:00 AM		Prep Date:	3/19/2013					
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	7.06	0	7.000	0	101	97.1	102.9			

**Qualifiers:** B Analyte detected in the associated Method Blank  
J Analyte detected between MDL and RL  
ND Not Detected at the Method Detection Limit  
RL Reporting Limit  
J Analyte detected between SDL and RL

DF Dilution Factor  
MDL Method Detection Limit  
R RPD outside accepted control limits  
S Spike Recovery outside control limits  
N Parameter not NELAC certified

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**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1303158  
**Project:** HELSTF Diesel Spill

## ANALYTICAL QC SUMMARY REPORT

**RunID:** TOC\_130321A

The QC data in batch 56501 applies to the following samples: 1303158-01B, 1303158-02B, 1303158-03B, 1303158-05B

Sample ID: LCS-56501	Batch ID: 56501	TestNo: M5310C	Units: mg/L							
SampType: LCS	Run ID: TOC_130321A	Analysis Date: 3/21/2013 10:06:00 AM	Prep Date: 3/21/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Organic Carbon	9.29	1.00	10.00	0	92.9	80	120			
Sample ID: MB-56501	Batch ID: 56501	TestNo: M5310C	Units: mg/L							
SampType: MBLK	Run ID: TOC_130321A	Analysis Date: 3/21/2013 10:23:00 AM	Prep Date: 3/21/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Organic Carbon	<0.300	1.00								
Sample ID: 1303158-02BMS	Batch ID: 56501	TestNo: M5310C	Units: mg/L							
SampType: MS	Run ID: TOC_130321A	Analysis Date: 3/21/2013 12:03:00 PM	Prep Date: 3/21/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Organic Carbon	62.4	5.00	50.00	14.15	96.5	80	120			
Sample ID: 1303158-02BMSD	Batch ID: 56501	TestNo: M5310C	Units: mg/L							
SampType: MSD	Run ID: TOC_130321A	Analysis Date: 3/21/2013 12:22:00 PM	Prep Date: 3/21/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Organic Carbon	63.3	5.00	50.00	14.15	98.3	80	120	1.41	15	

**Qualifiers:** B Analyte detected in the associated Method Blank  
J Analyte detected between MDL and RL  
ND Not Detected at the Method Detection Limit  
RL Reporting Limit  
J Analyte detected between SDL and RL

DF Dilution Factor  
MDL Method Detection Limit  
R RPD outside accepted control limits  
S Spike Recovery outside control limits  
N Parameter not NELAC certified

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**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1303158  
**Project:** HELSTF Diesel Spill

## ANALYTICAL QC SUMMARY REPORT

**RunID:** TOC\_130321A

Sample ID: ICV-130321	Batch ID: R65422	TestNo:	M5310C	Units:	mg/L					
SampType: ICV	Run ID: TOC_130321A	Analysis Date: 3/21/2013 9:47:00 AM			Prep Date:					
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Organic Carbon	14.7	1.00	15.00	0	98.1	90	110			
Sample ID: CCV1-130321	Batch ID: R65422	TestNo:	M5310C	Units:	mg/L					
SampType: CCV	Run ID: TOC_130321A	Analysis Date: 3/21/2013 1:22:00 PM			Prep Date:					
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Organic Carbon	9.15	1.00	10.00	0	91.5	80	120			

**Qualifiers:** B Analyte detected in the associated Method Blank  
J Analyte detected between MDL and RL  
ND Not Detected at the Method Detection Limit  
RL Reporting Limit  
J Analyte detected between SDL and RL

DF Dilution Factor  
MDL Method Detection Limit  
R RPD outside accepted control limits  
S Spike Recovery outside control limits  
N Parameter not NELAC certified

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**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1303158  
**Project:** HELSTF Diesel Spill

## ANALYTICAL QC SUMMARY REPORT

**RunID:** UV/VIS\_2\_130319A

The QC data in batch 56494 applies to the following samples: 1303158-01D, 1303158-02D, 1303158-03D, 1303158-05D

Sample ID: MB-56494	Batch ID: 56494	TestNo: M3500-Cr D	Units: mg/L							
SampType: MBLK	Run ID: UV/VIS_2_130319A	Analysis Date: 3/19/2013 11:31:00 AM	Prep Date: 3/19/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexavalent Chromium	<0.00800	0.0100								
Sample ID: LCS-56494	Batch ID: 56494	TestNo: M3500-Cr D	Units: mg/L							
SampType: LCS	Run ID: UV/VIS_2_130319A	Analysis Date: 3/19/2013 11:31:00 AM	Prep Date: 3/19/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.0998	0.0100	0.100	0	99.8	85	115			
Sample ID: LCSD-56494	Batch ID: 56494	TestNo: M3500-Cr D	Units: mg/L							
SampType: LCSD	Run ID: UV/VIS_2_130319A	Analysis Date: 3/19/2013 11:31:00 AM	Prep Date: 3/19/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.0956	0.0100	0.100	0	95.6	85	115	4.25	15	
Sample ID: 1303158-03D MS	Batch ID: 56494	TestNo: M3500-Cr D	Units: mg/L							
SampType: MS	Run ID: UV/VIS_2_130319A	Analysis Date: 3/19/2013 11:36:00 AM	Prep Date: 3/19/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.0951	0.0100	0.100	0	95.1	85	115			
Sample ID: 1303158-03D MSD	Batch ID: 56494	TestNo: M3500-Cr D	Units: mg/L							
SampType: MSD	Run ID: UV/VIS_2_130319A	Analysis Date: 3/19/2013 11:36:00 AM	Prep Date: 3/19/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.0978	0.0100	0.100	0	97.8	85	115	2.76	15	

**Qualifiers:** B Analyte detected in the associated Method Blank  
J Analyte detected between MDL and RL  
ND Not Detected at the Method Detection Limit  
RL Reporting Limit  
J Analyte detected between SDL and RL

DF Dilution Factor  
MDL Method Detection Limit  
R RPD outside accepted control limits  
S Spike Recovery outside control limits  
N Parameter not NELAC certified

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**CLIENT:** Zia Engineering & Environmental  
**Work Order:** 1303158  
**Project:** HELSTF Diesel Spill

## ANALYTICAL QC SUMMARY REPORT

**RunID:** UV/VIS\_2\_130319A

Sample ID: ICV-130319	Batch ID: R65404	TestNo:	M3500-Cr D	Units:	mg/L					
SampType: ICV	Run ID: UV/VIS_2_130319A	Analysis Date: 3/19/2013 11:30:00 AM		Prep Date:						
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.0954	0.0100	0.100	0	95.4	90	110			
Sample ID: CCV-130319	Batch ID: R65404	TestNo:	M3500-Cr D	Units:	mg/L					
SampType: CCV	Run ID: UV/VIS_2_130319A	Analysis Date: 3/20/2013 11:40:00 AM		Prep Date:						
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.197	0.0100	0.200	0	98.6	90	110			

**Qualifiers:** B Analyte detected in the associated Method Blank  
J Analyte detected between MDL and RL  
ND Not Detected at the Method Detection Limit  
RL Reporting Limit  
J Analyte detected between SDL and RL

DF Dilution Factor  
MDL Method Detection Limit  
R RPD outside accepted control limits  
S Spike Recovery outside control limits  
N Parameter not NELAC certified

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**Lab Order:** 1303158  
**Client:** Zia Engineering & Environmental  
**Project:** HELSTF Diesel Spill

## Sequence Report

### Run ID: GC15\_130326A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date	Matrix
ICV-130326	----	M8015D	R65522	1	3/26/2013 4:11:27 PM		A
LCS-56549	----	M8015D	56549	1	3/26/2013 4:32:54 PM	3/22/2013 6:39:50 AM	A
MB-56549	----	M8015D	56549	1	3/26/2013 4:50:51 PM	3/22/2013 6:39:50 AM	A
CCV1-130326	----	M8015D	R65522	1	3/26/2013 6:29:31 PM		A
1303158-01E	HLSF-0154-DRW-005-0313	M8015D	56549	1	3/26/2013 7:16:13 PM	3/22/2013 6:39:50 AM	A
1303158-02E	HLSF-0154-HCF-001-0313	M8015D	56549	1	3/26/2013 7:25:12 PM	3/22/2013 6:39:50 AM	A
1303158-03E	HLSF-0154-RB-001-0313	M8015D	56549	1	3/26/2013 7:34:10 PM	3/22/2013 6:39:50 AM	A
1303158-05E	HLSF-0154-DRW-012-0313	M8015D	56549	1	3/26/2013 7:43:08 PM	3/22/2013 6:39:50 AM	A
1303190-01DMS	----	M8015D	56549	1	3/26/2013 7:52:06 PM	3/22/2013 6:39:50 AM	A
1303190-01DMSD	----	M8015D	56549	1	3/26/2013 8:01:04 PM	3/22/2013 6:39:50 AM	A
CCV2-130326	----	M8015D	R65522	1	3/26/2013 8:10:01 PM		A

### Run ID: GC15\_130327A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date	Matrix
ICV-130327	----	M8015D	R65518	1	3/27/2013 9:40:46 AM		A
SBLK-130327	----	M8015D	56549	1	3/27/2013 9:51:54 AM		A
1303158-03E	HLSF-0154-RB-001-0313	M8015D	56549	1	3/27/2013 10:00:53 AM	3/22/2013 6:39:50 AM	A
1303158-02E	HLSF-0154-HCF-001-0313	M8015D	56549	10	3/27/2013 10:09:52 AM	3/22/2013 6:39:50 AM	A
CCV1-130327	----	M8015D	R65518	1	3/27/2013 12:16:58 PM		A

### Run ID: GCMS7\_130322A

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date	Matrix
ICV-130322	----	SW8260C	R65454	1	3/22/2013 10:48:00 AM		A
LCS-56560	----	SW8260C	56560	1	3/22/2013 11:13:00 AM	3/22/2013 10:33:37 AM	A
MB-56560	----	SW8260C	56560	1	3/22/2013 12:01:00 PM	3/22/2013 10:33:37 AM	A
1303158-01A	HLSF-0154-DRW-005-0313	SW8260C	56560	1	3/22/2013 6:05:00 PM	3/22/2013 10:33:37 AM	A
1303158-02A	HLSF-0154-HCF-001-0313	SW8260C	56560	1	3/22/2013 6:29:00 PM	3/22/2013 10:33:37 AM	A
1303158-03A	HLSF-0154-RB-001-0313	SW8260C	56560	1	3/22/2013 6:53:00 PM	3/22/2013 10:33:37 AM	A
1303158-04A	HLSF-0154-FB-001-0313	SW8260C	56560	1	3/22/2013 7:17:00 PM	3/22/2013 10:33:37 AM	F
1303158-05A	HLSF-0154-DRW-012-0313	SW8260C	56560	1	3/22/2013 7:42:00 PM	3/22/2013 10:33:37 AM	A
1303158-06A	HLSF-0154-TB-0313	SW8260C	56560	1	3/22/2013 8:06:00 PM	3/22/2013 10:33:37 AM	T
1303141-01AMS	----	SW8260C	56560	1	3/22/2013 8:30:00 PM	3/22/2013 10:33:37 AM	A
1303141-01AMSD	----	SW8260C	56560	1	3/22/2013 8:54:00 PM	3/22/2013 10:33:37 AM	A

**Lab Order:** 1303158  
**Client:** Zia Engineering & Environmental  
**Project:** HELSTF Diesel Spill

**Sequence Report****Run ID: ICP-MS3\_130329B**

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date	Matrix
BLANK STD 1	-----	SW6020A	R65590	1	3/29/2013 11:03:00 AM		A
1/20 ppb STD.	-----	SW6020A	R65590	1	3/29/2013 11:09:00 AM		A
10/200 ppb STD.	-----	SW6020A	R65590	1	3/29/2013 11:15:00 AM		A
50/1000 ppb STD.	-----	SW6020A	R65590	1	3/29/2013 11:21:00 AM		A
100/2000 ppb STD.	-----	SW6020A	R65590	1	3/29/2013 11:27:00 AM		A
250/5000 ppb STD.	-----	SW6020A	R65590	1	3/29/2013 11:34:00 AM		A
500/10000 ppb STD.	-----	SW6020A	R65590	1	3/29/2013 11:40:00 AM		A
2000/25000 ppb ST	-----	SW6020A	R65590	1	3/29/2013 11:46:00 AM		A
ICV1-130329	-----	SW6020A	R65590	1	3/29/2013 12:28:00 PM		A
ILCVL1-130329	-----	SW6020A	R65590	1	3/29/2013 12:47:00 PM		A
ICB1-130329	-----	SW6020A	R65590	1	3/29/2013 12:53:00 PM		A
CCV1-130329	-----	SW6020A	R65590	1	3/29/2013 2:32:00 PM		A
LCVL1-130329	-----	SW6020A	R65590	1	3/29/2013 3:15:00 PM		A
CCB1-130329	-----	SW6020A	R65590	1	3/29/2013 3:27:00 PM		A
MB-56631	-----	SW6020A	56631	1	3/29/2013 3:34:00 PM	3/27/2013 8:58:27 AM	A
LCS-56631	-----	SW6020A	56631	1	3/29/2013 3:40:00 PM	3/27/2013 8:58:27 AM	A
LCSD-56631	-----	SW6020A	56631	1	3/29/2013 3:46:00 PM	3/27/2013 8:58:27 AM	A
1303158-03C	HLSF-0154-RB-001-0313	SW6020A	56631	1	3/29/2013 3:58:00 PM	3/27/2013 8:58:27 AM	A
1303158-03C SD	HLSF-0154-RB-001-0313	SW6020A	56631	5	3/29/2013 4:04:00 PM	3/27/2013 8:58:27 AM	A
1303158-01C	HLSF-0154-DRW-005-0313	SW6020A	56631	1	3/29/2013 4:11:00 PM	3/27/2013 8:58:27 AM	A
1303158-02C	HLSF-0154-HCF-001-0313	SW6020A	56631	1	3/29/2013 4:17:00 PM	3/27/2013 8:58:27 AM	A
1303158-05C	HLSF-0154-DRW-012-0313	SW6020A	56631	1	3/29/2013 4:23:00 PM	3/27/2013 8:58:27 AM	A
1303158-03C PDS	HLSF-0154-RB-001-0313	SW6020A	56631	1	3/29/2013 4:29:00 PM	3/27/2013 8:58:27 AM	A
1303158-03C MS	HLSF-0154-RB-001-0313MS	SW6020A	56631	1	3/29/2013 4:35:00 PM	3/27/2013 8:58:27 AM	A
1303158-03C MSD	HLSF-0154-RB-001-0313MSD	SW6020A	56631	1	3/29/2013 4:41:00 PM	3/27/2013 8:58:27 AM	A
CCV2-130329	-----	SW6020A	R65590	1	3/29/2013 4:59:00 PM		A
LCVL2-130329	-----	SW6020A	R65590	1	3/29/2013 5:30:00 PM		A
CCB2-130329	-----	SW6020A	R65590	1	3/29/2013 5:43:00 PM		A

**Lab Order:** 1303158  
**Client:** Zia Engineering & Environmental  
**Project:** HELSTF Diesel Spill

**Sequence Report****Run ID: TITRATOR\_130319A**

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date	Matrix
ICV2-130319	-----	M4500-H+ B	R65391	1	3/19/2013 9:33:00 AM	3/19/2013 9:33:00 AM	A
ICV1-130319	-----	M4500-H+ B	R65391	1	3/19/2013 9:34:00 AM	3/19/2013 9:34:00 AM	A
ICV-130319	-----	M4500-H+ B	R65391	1	3/19/2013 9:36:00 AM	3/19/2013 9:36:00 AM	A
1303158-01D	HLSF-0154-DRW-005-0313	M4500-H+ B	56504	1	3/19/2013 9:37:00 AM	3/19/2013 9:30:00 AM	A
1303158-01D DUP	HLSF-0154-DRW-005-0313PD9	M4500-H+ B	56504	1	3/19/2013 9:39:00 AM	3/19/2013 9:30:00 AM	A
1303158-02D	HLSF-0154-HCF-001-0313	M4500-H+ B	56504	1	3/19/2013 9:41:00 AM	3/19/2013 9:30:00 AM	A
1303158-03D	HLSF-0154-RB-001-0313	M4500-H+ B	56504	1	3/19/2013 9:43:00 AM	3/19/2013 9:30:00 AM	A
1303158-05D	HLSF-0154-DRW-012-0313	M4500-H+ B	56504	1	3/19/2013 9:46:00 AM	3/19/2013 9:30:00 AM	A
CCV-130319	-----	M4500-H+ B	R65391	1	3/19/2013 9:47:00 AM	3/19/2013 9:47:00 AM	A

**Run ID: TOC\_130321A**

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date	Matrix
ICV-130321	-----	M5310C	R65422	1	3/21/2013 9:47:00 AM		A
LCS-56501	-----	M5310C	56501	1	3/21/2013 10:06:00 AM	3/21/2013 9:00:00 AM	A
MB-56501	-----	M5310C	56501	1	3/21/2013 10:23:00 AM	3/21/2013 9:00:00 AM	A
1303158-01B	HLSF-0154-DRW-005-0313	M5310C	56501	5	3/21/2013 10:42:00 AM	3/21/2013 9:00:00 AM	A
1303158-02B	HLSF-0154-HCF-001-0313	M5310C	56501	5	3/21/2013 11:00:00 AM	3/21/2013 9:00:00 AM	A
1303158-03B	HLSF-0154-RB-001-0313	M5310C	56501	1	3/21/2013 11:18:00 AM	3/21/2013 9:00:00 AM	A
1303158-05B	HLSF-0154-DRW-012-0313	M5310C	56501	1	3/21/2013 11:44:00 AM	3/21/2013 9:00:00 AM	A
1303158-02BMS	HLSF-0154-HCF-001-0313MS	M5310C	56501	5	3/21/2013 12:03:00 PM	3/21/2013 9:00:00 AM	A
1303158-02BMSD	HLSF-0154-HCF-001-0313MSD	M5310C	56501	5	3/21/2013 12:22:00 PM	3/21/2013 9:00:00 AM	A
CCV1-130321	-----	M5310C	R65422	1	3/21/2013 1:22:00 PM		A

**Run ID: UV/VIS\_2\_130319A**

Sample ID	Client Sample ID	Test Number	Batch ID	Dilution	Analysis Date	Prep Date	Matrix
ICV-130319	-----	M3500-Cr D	R65404	1	3/19/2013 11:30:00 AM		A
MB-56494	-----	M3500-Cr D	56494	1	3/19/2013 11:31:00 AM	3/19/2013 10:31:03 AM	A
LCS-56494	-----	M3500-Cr D	56494	1	3/19/2013 11:31:00 AM	3/19/2013 10:31:03 AM	A
LCSD-56494	-----	M3500-Cr D	56494	1	3/19/2013 11:31:00 AM	3/19/2013 10:31:03 AM	A
1303158-03D	HLSF-0154-RB-001-0313	M3500-Cr D	56494	1	3/19/2013 11:36:00 AM	3/19/2013 10:31:03 AM	A
1303158-03D MS	HLSF-0154-RB-001-0313MS	M3500-Cr D	56494	1	3/19/2013 11:36:00 AM	3/19/2013 10:31:03 AM	A
1303158-03D MSD	HLSF-0154-RB-001-0313MSD	M3500-Cr D	56494	1	3/19/2013 11:36:00 AM	3/19/2013 10:31:03 AM	A
1303158-01D	HLSF-0154-DRW-005-0313	M3500-Cr D	56494	1	3/19/2013 11:36:00 AM	3/19/2013 10:31:03 AM	A
1303158-02D	HLSF-0154-HCF-001-0313	M3500-Cr D	56494	1	3/19/2013 11:38:00 AM	3/19/2013 10:31:03 AM	A
1303158-05D	HLSF-0154-DRW-012-0313	M3500-Cr D	56494	1	3/19/2013 11:40:00 AM	3/19/2013 10:31:03 AM	A
CCV-130319	-----	M3500-Cr D	R65404	1	3/20/2013 11:40:00 AM		A